Permit Checklist

Permit # Issued: VAG830391 Case Manager: JLG

FACILITY Name:	Corbalis to Fox Mill 54" Water Main	Registration Statement Rcvd:	03/02/2011
Address:	Pkwy, SE corner	Additional Info Requested:	03/03/2011
City, Zip	Reston 20190	Additional Info Received:	03/04/2011
County	Fairfax	2 nd Request for Addt'l Info:	03/04/2011
		2 nd Request for Addt'l Info Rcvd:	03/07/2011
OWNER/RP Name:	Kassouf Co. & Clinton Road Joint Venture (KCR)	Administratively Complete:	03/09/2011
Address:	11654 Plaza America Dr., Ste 177	Technically Complete:	03/03/2011
City, State, Zip:	Reston, VA 20190	Signed:	03/10/2011
Phone / Fax:		1 st DMR Due:	04/10/2011
Consultant:	NONE	1 st Monitoring Period:	MAR

	Con	sultant: NONE	1 st Monitoring Period: MAR
Cont	- A BAINI	ATIONI	
		<u>ATION:</u> : roleum: ⊠ Gasoline	roducts Other Than Gasoline
	ı Pet		
		□ Unleaded ONLY □ Leaded & Unleaded	☐ Hydrostatic Testing
		☐ Leaded & Unleaded	☐ Chlorinated Hydrocarbons
		☐ Greater than 10% Ethanol	
YES	/ No		
		Proper analytical data of raw wastewater received?	(Data should correspond with the type of
\boxtimes		contamination checked above. Ex: used oil includes VO	Cs, SVOCs & Metals; chlorinated hydrocarbons
		include all constituents present.)	
\boxtimes		Waterbody identified? Sugarland Run	
\boxtimes		Discharge frequency, volume and flow properly estir	
\boxtimes		Proposed wastewater treatment system diagram rec	
		O&M required? (Required if the facility's system do	es any type of storing or on-site cleaning /
		treating prior to discharging to state waters.)	
		Topographic or other map received with the followin	g propeny identified:
		Receiving waterbody	
		Discharge point(s)	
		Property boundaries	
	<u> </u>	within ½ mile radius of proposed discharge:	
		Springs Communication of the C	
		Other surface waterbodies	
		Drinking wells	
		Public Water Supplies (PWS)	
	X	PWS within 5 miles of proposed discharge? (If w	
		Central wastewater treatment facility availability pro	perly assessed?
		Current permit issued by the Board?	
	X	PC #? <u>IR2011-N-1934</u>	
		Hazardous waste?	
	\boxtimes	Proper signature?	
EFFL	UENT I	LIMITATIONS & MONITORING REQUIREMENTS	
# of (Outfall	s: <u>'001</u>	Receiving Water: Freshwater
Cont	amina	tion by: Both Gasoline + Other Petroleum Products	PWS: □ Yes ⊠ No
Conta	amma	mon by. Don't Gasonine + Other Felloleum Floducts	1 VVO. L. 165 M INO
		ecific petroleum products causing contamination:	DMR Limit Set #: 10

□ Not Accepted □	Case Manager's Signature: Joseph L. Glassman
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VPDES GENERAL PERMIT REGISTRATION STATEMENT FOR DISCHARGES FROM PETROLEUM CONTAMINATED SITES, GROUNDWATER REMEDIATION AND HYDROSTATIC TESTS (VAG83)

Please Type or Print all information

1.	Legal Name of Facility Corbalis to Fox Mill 54" Water Main -Work Site A
2. N (Location of Facility (Street No., Route No., or Other Identifier, and Telephone Number) South East Corner Of Fairfax Co. Pkwy & ew Dominion Pkwy in Reston VA 20190
3.	Facility Owner Name (individual or corporate) Kassouf Co. & Clinton Road Joint Venture (KCR)
	Owner Address: 11654 Plaza America Dr. #177, Street or P.O. Box
	Reston, VA 20190
	City State Zip Phone: (216) 409 – 7509 Email Address JKassouf@creqcc.com
4.	Nature of the business conducted at the facility <u>Utility Installation By Tunneling</u>
5.	Type of petroleum product(s) causing or that caused contamination. Machine Oil, Lubricating Grease, Hydraulic Oil, Motor Oil, Grease, Gear Oil, SEE ATTACHED MSDS SHEETS
	If chlorinated hydrocarbon solvents are the constituents of concern, list the chlorinated hydrocarbons present in water at the site. NA
6.	Which activities will result in a point source discharge from the site? (Check all that apply) X Excavation Dewatering Purging Ground Water Monitoring Wells Aquifer Tests to Characterize Site Conditions Hydrostatic Tests of Petroleum Storage Tanks or Pipelines Hydrostatic Tests of Natural Gas Storage Tanks or Pipelines Pumping Contaminated Groundwater to Remove Free Product From The Ground Other Petroleum Product or Chlorinated Hydrocarbon Solvent Cleanup Activity X (specify) Mining Equipment Cooling activities (City Water Initial Source)
7.	Has a site characterization report for this site been submitted to the Department of Environmental Quality? Yes NoX
8.	Characterize or describe the wastewater to be discharged including the types of contaminants present in the wastewater Provide analytical data. See Attached MSDS Sheets & Water Sample Test Results
9.]	Identify the discharge point and the waterbody into which the discharge will occur. Southeast Corner of Fairfax Co. Pkwy and New Dominion Pkwy into culvert under 7100 Run off into Sugarland Run Stream
10.	How often will the discharge occur (e.g., daily, monthly, continuously)? Continuously
11.	Estimate how long each discharge will last:550 days or 18 month (Present Project Duration) hours or days
2.	Estimate total volume of wastewater to be discharged: approximately 8 million Gal

13.	Estimate maximum flow rate of the discharge: Gal/day.											
14.	Attach a diagram of the proposed wastewater treatment system identifying the individual treatment units.											
15.	Attach a topographic or other map which indicates the receiving waterbody name, the discharge point(s), the property boundaries, as well as springs, other surface waterbodies, drinking water wells, and public water supplies, which are identified in the public record or are otherwise known to the applicant, within a 1/2 mile radius of the proposed discharge(s).											
16.	Are central wastewater treatment facilities available to this site? Yes X No											
	If "yes", has the option of discharging to the central facilities been evaluated? What was the result of that evaluation?											
	Yes it was evaluated, Discharge not allowed due to prohibition given by Saiful Islam Ph.D. with the Dept of Wastewater Planning & Monitoring Division see attached email.											
	wastewater Framming & Monitoring Division see attached eman,											
17.	Does this facility currently have a permit issued by the Board? Yes NoX											
	If yes, please provide permit number:NA											
18.	Pollution Complaint Number(s) (if applicable) None											
19.	Is the material being treated or discharged classified as a hazardous waste under the Virginia Hazardous Waste Regulation, 9 VAC 20-60? Yes No_ X											
20.	Certification:											
	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. I do also hereby grant duly authorized agents of the Department of Environmental Quality, upon presentation of credentials, permission to enter the property for the purpose of determining the suitability of the general permit.											
Sigi	nature:Date: 03/3/2011											
Prin	nt Name: James R. Kassouf											
Titl	e: Partner, Kassouf & Clinton Road Joint Venture											
RE	QUIRED ATTACHMENTS Wastewater Characterization Analytical Data Treatment Works Design Schematic Drawing Topographic Map											
For	Department Use Only:											
	Waterbody											
	Basin Stream Class Section											
	Special Standards											

James Kassouf

From:

Islam, Saiful [Saiful.Islam@fairfaxcounty.gov]

Sent:

Friday, March 04, 2011 7:23 AM

To:

James Kassouf

Subject:

RE: Groundwater rev 3 of 3

Good morning James:

I reviewed the VPDES General Permit Application, water sample analysis and MSDS sheets. Unfortunately we do not allow groundwater remediation project generated wastewater to be discharged into sanitary sewer due to prohibition in our local codes. If you need more information, please call or email me and also you can visit our website.

Thanks Sincerely

Saiful Islam Ph.D.

Environmental Health Specialist, Industrial Waste Section

Wastewater Planning & Monitoring Division Noman M. Cole, Jr. Pollution Control Plant 9399 Richmond Highway Lorton, Virginia 22079-1899

Phone: 703-550-9740, ext 418

703-550-1071

E-mail: Saiful.Islam@fairfaxcounty.gov

From: James Kassouf [mailto:jkassouf@creqcc.com]

Sent: Thursday, March 03, 2011 10:48 AM

To: Islam, Saiful

Subject: RE: Groundwater rev 3 of 3

Apologies no attachment

From: Islam, Saiful [mailto:Saiful.Islam@fairfaxcounty.gov]

Sent: Thursday, March 03, 2011 8:26 AM

To: James Kassouf Subject: Groundwater

Good morning James:

I am providing you with the IWS website where you can browse information regarding the ordinance, permits and other associated information:

http://www.fairfaxcounty.gov/dpwes/wastewater/industrialwaste/discharge.htm#limits

Thanks Sincerely

Saiful Islam Ph.D.

Environmental Health Specialist, Industrial Waste Section

Wastewater Planning & Monitoring Division

Noman M. Cole, Jr. Pollution Control Plant 9399 Richmond Highway Lorton, Virginia 22079-1899

 Phone:
 703-550-9740, ext 418

 Fax:
 703-550-1071

 E-mail:
 Saiful.Islam@fairfaxcounty.gov

Exhibit A

Emergency Response Report

Attachments

1)	USGS MapsPg	37
2)	Site DiagramPg	40
3)	Treatment System DiagramPg	42
4)	Site Material Safety Data Sheets (MSDS)Pg	44



KCR Joint Venture

11654 Plaza America Drive, #177 Reston VA, 20190

Emergency Response Report

IR# 2011-N1934 Corbalis to Fox Mill Tunneling Operation Oil Discharge

12025T New Dominion Parkway Reston, VA 20190

Submitted to:

VA DEQ, Northern Regional Office

Date: March 1st, 2011

Signature Page

This report was prepared by:				
James R. Land	Ja	ames R. Kassouf	•	
Signed	Name (Prin	nted)		
Kassouf Co & Clinton Road Joint Venture	M	Iarch, 1 st , 2011		
Company	Date			
11654 Plaza America Drive # 177,	Reston,	Virginia,	20190	
Address, City, State, Zip				
(216) 409 – 7509	(2	216) 395 - 0101		
Phone Number	Fax Number	er	·	

Executive Summary

KCR/Joint Venture is under contract to perform underground utility installation for Fairfax Water along Route 7100 in Fairfax County (Corbalis to Fox Mill Tunneling Operation). This project involves underground mining and excavation activities at a depth of approximately 45 feet for 8500 linear feet. The project is anticipated to last 18 months. The tunneling project involves the use of heavy equipment that utilizes hydraulic oils and petroleum lubricants during daily operation. The tunneling or boring equipment requires cooling during operation. Cooling is achieved by providing either city/county water or recycled water as the coolant. The tunneling operation also encounters spring and ground water. Together, these waters are pumped to the surface for discharge.

During initial start operations and fine tuning of equipment, hydraulic oils were released into the tunnel water and pumped to the surface where it was discharged through the silt/sediment control devices to an unnamed tributary of Sugarland Run adjacent to the construction activities.

On January 19, 2011 the release was discovered. KCR/Joint Venture, in response to Fairfax County Fire & Rescue and the VA DEQ, undertook measures to clean-up petroleum released from the site as well as implementing steps to prevent further release of petroleum product from the site. These activities are ongoing until at the present time and will continue until the site is discharging in accordance with a VPDES permit and all petroleum impacted soils have been excavated as detailed below.

KCR is implementing an on-site treatment system to eliminate petroleum from the discharge water. Initial steps include the addition of a sump in the excavation, installation of a sediment control box and an oil/water separator to prevent to discharge of free product. A system of bag filters and activated carbon filtration is currently being evaluated. A VPDES General Permit Resignation Statement is being submitted concurrent with this emergency response report. Initial water analysis of the discharge water from the oil/water separator is attached.

Upon implementation of a VPDES permit, KCR/Joint Venture will excavate petroleum impacted soils and gravel at the silt/sediment outfall. These impacted soils will be transported offsite for soil recycling at RECO Biotechnology in Richmond, VA. An initial composite soil sample for disposal has been analyzed for acceptance parameters into the disposal facility. The results are attached. Post-excavation soil analysis will be collected and analyzed to ensure that petroleum impacted soils have been properly removed.

A follow up report will be submitted documenting the final clean-up once the steps reference above have been completed.

General Site Information

This project site is located at the follow GPS coordinates:

N 38°57'32.1 W 077°22'10.8

The site is east of Route 7100 Northbound between the W&OD Trail and New Dominion Parkway. The Project site consists of a fenced gravel yard with office trails, storage containers, equipment lay down yard and the tunnel excavation opening.

Please see attached site diagram and topological maps.

Release Information and Initial Abatement Measures

Release Description

Hydraulic oil was released into the tunnel water during the initial start up and fine tuning of equipment. Tunnel water is defined here are the comingling of nature spring water, ground water and city water (used for equipment cleaning). Tunnel water, impacting with hydraulic oil, was pumped to the surface and discharged through the silt and sediment control devices and subsequently into an unnamed tributary of Sugarland Run. An estimated 40-60 gallons of petroleum product is suspected to have been released during the initial release. The quantity of oil release is based upon the estimated amount of oil used above and beyond the initial quantity necessary for equipment start up.

Ongoing operation of heavy equipment that utilizes hydraulic oil and petroleum lubricants in the tunneling operation creates a potential for ongoing/future contamination of tunnel water. This is due to cooling of equipment, general maintenance and incidentally failure of hydraulic lines/equipment during normal operation.

Initial Abatement Measures:

The following actions have been implemented during initial abatement:

- 1. Mobilization of a vacuum truck to collect free product observed in tributary and around silt/sediment control devices.
- 2. Installation of approximately 8 layers of absorbent booms/sweep along the unnamed tributary. Installation of absorbent pads along silt and sediment control devices where free product has been observed. Currently these absorbents are checked, maintained and replaced as necessary on a bi-weekly basis.
- 3. Removal and replacement of initial silt bags and straw bales impacted with petroleum.
- 4. Installation of a sump inside the excavation/tunnel to facilitate the collection of free product prior to pumping tunnel water to the surface.
- 5. Installation of a sediment box (roughly 4,000 gallon) and an oil/water separator to collect free product in tunnel water after it is pumped to the surface.
- 6. Continued monitoring of oil/water separator and sediment box for the present of free product and utilization of a vacuum truck to collect and dispose of free product as necessary.
- 7. Copies of disposal manifests are attached.
- 8. KCR personnel working in the tunnel/excavation are receiving ongoing awareness training regarding the safe and clean operation and maintenance of equipment, specifically with regarding to the handling of petroleum products in the excavation.

Continuing and Plan Activities

Water Management

KCR/Joint is submitting a VPDES General Permit Registration Statement to receive a general discharge permit for the tunnel water. The Registration Statement is being submitted concurrent with this emergency response report. In addition to sump, sediment box and oil/water separator already installed, KCR is evaluating a system of bag filters and activated carbon filtration vessels to meet the discharge requirements of the VPDES permit. Initial water sample results are attached. The water sample was taken from the discharge tank on the oil/water separator and is representative of water for discharge post sump, post sediment box, post oil water separator, pre bag filters.

Once the water treatment system is fully installed, the system will be monitored in accordance with the requirement of the VPDES permit.

Soil Management

Once the water discharge system under a VPDES permit is installed at the site, the soils, gravel, and straw associated with the original silt/sediment control devices will be excavated, transported and disposed of at an offsite soil recycling facility for petroleum impacted soils.

Post excavation sampling will be conducted to confirm removal of the petroleum contamination in the affected area.

The site will be restored to the existing grades with clean fill and stone. The silt/sediment control devices will be restored as deemed necessary in light of the treatment system and the requirements of Fairfax County.

The absorbent booms and pads around the point of discharge and downstream will be maintained and replaced as necessary until the above water and soil management tasks have been completed. A follow up report documenting completion of these tasks will be submitted to the VA DEQ upon completion.

Attachments

Attached please find the following documents:

- 1. Water Analysis Certificates
- 2. Composition Soil (for disposal) Analysis Certificates
- 3. Petroleum impacted water and debris Disposal Manifests

Analytical Report for

Atlas Environmental Services, LLC Certificate of Analysis No.: 11021711

Project Manager: Paul Stoecklin

Project Name: KCR

Project Location: 7100 Herndon, VA



February 24, 2011

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228

Phone: (410) 747-8770 Fax: (410) 788-8723 6630 BALTIMORE NATIONAL PIKE ROUTE 40 WEST BALTIMORE, MD 21228 410-747-8770 800-932-9047

SEPARATION SCIENCE, INC.



February 24, 2011

Paul Stoecklin Atlas Environmental Services, LLC P.O. Box 1490

Lorton, VA 22199-1490

Reference: PSS Work Order No: 11021711

Project Name: KCR

Project Location: 7100 Herndon, VA

Dear Paul Stoecklin:

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered 11021711.

All work reported herein has been performed in accordance with current NELAP standards referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on March 24, 2011. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any que

Dan Prucnal

Laboratory Manager



Sample Summary

Client Name: Atlas Environmental Services, LLC

Project Name: KCR

Project ID: N/A

Work Order Number: 11021711

The following samples were received under chain of custody by Phase Separation Science (PSS) on 02/17/2011 at 01:15 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
11021711-001	001	WATER	02/16/2011 15:00
11021711-002	002	WATER	02/16/2011 15:00
11021711-003	003	SOIL	02/16/2011 15:00

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

- The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

Standard Flags/Abbreviations:

- B A target analyte or commone laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the LOD.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect.

 An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Page 3 of 8

Case marrative ourimary



Client Name: Atlas Environmental Services, LLC

Project Name: KCR

Project ID: N/A

Work Order Number: 11021711

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

SW-846 9078

03/04/2011 KCR JV Page 16 of 73

Page 4 of 8

OFFICES: 6630 BALTIMORE NATIONAL PIKE ROUTE 40 WEST BALTIMORE, MD 21228 410-747-8770 800-932-9047 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 11021711

Atlas Environmental Services, LLC, Lorton, VA

February 24, 2011

Project Name: KCR

Project Location: 7100 Herndon, VA

Sample ID: 001			e Sampled:			PSS Sampl	e ID: 1102171	1-001			
Matrix: WATER		Date/Time	Received:	02/17/	2011 13:15						
Purgeable Aromatics	Analytical Method: SW-846 8021B P					Preparation Method: 5030B					
:	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst			
Benzene	ND	ug/L	1		1	02/18/11	02/18/11 15:5	7 1035			
Toluene	ND	ug/L	1		1	02/18/11	02/18/11 15:5	7 1035			
Ethylbenzene	ND	ug/L	1		1	02/18/11	02/18/11 15:5	7 1035			
m,p-Xylenes	ND	ug/L	2		1	02/18/11	02/18/11 15:5	7 1035			
o-Xylene	ND	ug/L	1		1	02/18/11	02/18/11 15:5	7 1035			
Methyl-t-butyl ether	ND	ug/L	1		1	02/18/11	02/18/11 15:5	7 1035			
Naphthalene	2	ug/L	1		1	02/18/11	02/18/11 15:57	7 1035			
Sample ID: 002		Date/Tim	e Sampled:	02/16/	2011 15:00	PSS Sampl	e ID: 1102171	1-002			
Matrix: WATER	I	Date/Time	Received:	02/17/	2011 13:15						
Diesel/Oil Range Organics	Analytica	l Method:	SW-846 8015	С	F	reparation Meth	nod: 3510C				
DF/HF - No. 2/diesel fuel and heavier fuel/oil	patterns obse	erved in san	iple.								
·	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst			
TPH-DRO/ORO (Diesel/Oil Range Organics)	8	mg/L	1	DF	10	02/21/11	02/21/11 14:32	2 1040			

Page 5 of 8

OFFICES: 6630 BALTIMORE NATIONAL PIKE ROUTE 40 WEST BALTIMORE, MD 21228 410-747-8770 800-932-9047 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 11021711

Atlas Environmental Services, LLC, Lorton, VA

February 24, 2011

Project Name: KCR

Project Location: 7100 Herndon, VA

Sample ID: 003		Date/Time	Sampled:	02/16/	2011 15:0	0 PSS Sampl	e ID: 1102171	1-003	
Matrix: SOIL	1	Date/Time	Received:	02/17/	2011 13:1	5 % S	olids: 65		
Total Metals	Analytica	l Method: S	SW-846 6020		Preparation Method: 3050B				
_	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst	
Arsenic	2.5	mg/kg	0.6		1	02/17/11	02/18/11 15:5	0 1033	
Barium	82	mg/kg	2.9		1	02/17/11	02/18/11 15:5	0 1033	
Cadmium	ND	mg/kg	2.9		1	02/17/11	02/18/11 15:5	0 1033	
Chromium	34	mg/kg	2.9		1	02/17/11	02/18/11 15:5	0 1033	
Lead	9.4	mg/kg	2.9		1	02/17/11	02/18/11 15:5	0 1033	
Mercury	ND	mg/kg	0.12		1	02/17/11	02/18/11 15:5	0 1033	
Selenium	ND	mg/kg	2.9		1	02/17/11	02/18/11 15:5	0 1033	
Silver	ND	mg/kg	2.9		1	02/17/11	02/18/11 15:5	0 1033	
Total Petroleum Hydrocarbons - DRO			SW-846 8015	С		Preparation Meth	nod: 3550		
DF/HF - No. 2/diesel fuel and heavier fuel.	oil patterns obse	erved in sam	ole.						
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst	
TPH-DRO (Diesel Range Organics)	Result 300	Units mg/kg	RL 6	Flag DF	Dil 1	Prepared 02/21/11	Analyzed 02/21/11 19:2	Analyst 7 1040	
TPH-DRO (Diesel Range Organics) Purgeable Aromatics	300	mg/kg		DF			02/21/11 19:2		
	300	mg/kg	6	DF		02/21/11	02/21/11 19:2		
	300 Analytica	mg/kg	6 W-846 8021	DF	1	02/21/11 Preparation Meth	02/21/11 19:2 nod: 5030 Analyzed	7 1040 Analyst	
Purgeable Aromatics	300 Analytica Result	mg/kg I Method: S Units	6 SW-846 8021 RL	DF	1 Dil	02/21/11 Preparation Meth	02/21/11 19:2 nod: 5030 Analyzed	7 1040 Analyst 7 1035	
Purgeable Aromatics Benzene	300 Analytica Result ND	mg/kg I Method: S Units ug/kg	6 SW-846 8021 RL 2	DF	1 Dil 1	02/21/11 Preparation Meth Prepared 02/17/11	02/21/11 19:2 nod: 5030 Analyzed 02/17/11 16:2 02/17/11 16:2	7 1040 Analyst 7 1035 7 1035	
Purgeable Aromatics Benzene Toluene	300 Analytica Result ND ND	mg/kg I Method: S Units ug/kg ug/kg	6 SW-846 8021 RL 2 2	DF	1 Dil 1 1	02/21/11 Preparation Method Prepared 02/17/11 02/17/11	02/21/11 19:2 nod: 5030 Analyzed 02/17/11 16:2 02/17/11 16:2	7 1040 Analyst 7 1035 7 1035 7 1035	
Purgeable Aromatics Benzene Toluene Ethylbenzene	Analytica Result ND ND ND ND	mg/kg I Method: S Units ug/kg ug/kg ug/kg	6 SW-846 8021 RL 2 2 2	DF	1 Dil 1 1 1	02/21/11 Preparation Method Prepared 02/17/11 02/17/11	02/21/11 19:2 nod: 5030 Analyzed 02/17/11 16:2 02/17/11 16:2 02/17/11 16:2	Analyst 7 1035 7 1035 7 1035 7 1035 7 1035	
Purgeable Aromatics Benzene Toluene Ethylbenzene m,p-Xylenes	Analytica Result ND ND ND ND ND ND ND ND ND	mg/kg I Method: S Units ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	6 SW-846 8021 RL 2 2 2 2 3	DF	1 Dil 1 1 1 1 1	02/21/11 Preparation Method Prepared 02/17/11 02/17/11 02/17/11 02/17/11	02/21/11 19:2 nod: 5030 Analyzed 02/17/11 16:2 02/17/11 16:2 02/17/11 16:2	Analyst 7 1035 7 1035 7 1035 7 1035 7 1035	
Purgeable Aromatics Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	Analytica Result ND ND ND ND ND ND ND ND ND	mg/kg I Method: S Units ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	RL 2 2 2 3 2 3 2 8W-846 9078	DF	1 Dil 1 1 1 1 1	02/21/11 Preparation Method Prepared 02/17/11 02/17/11 02/17/11 02/17/11	02/21/11 19:2 nod: 5030 Analyzed 02/17/11 16:2 02/17/11 16:2 02/17/11 16:2	Analyst 7 1035 7 1035 7 1035 7 1035 7 1035	

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SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com email: info@phaseonline.com

MENTAL																			
CLIENT: AT AS ENV.	OFFIC	ELOC. LO	ntar V	X		ark Orde	ir #:	107	47	H						PAGE	_/	OF _	/_
PROJECT MGR. PAW STEEL W.	PHONE	NO.: 76	3)33979	770	Matrix C SW=Sur	odes: tace Wtr D	W= Drink	ing Wrt	GW =G	round V	Vtr WW	-Waste	Wtr O	-Oil S	Soil WL	=Waste	Liquid	WS=Waste	Soild W= Wipe
EMAIL: FALL CALLASON THEM	FREAT NO	· (,		No. C	SAMPLE	Preserva Used	Wes W	W W	ر ل	رس ۷	4	M,	1 46	1/2/1	18			
			,		0 N	TYPE	Anelysis Method		/4	\forall	/3		$\langle \mathcal{Y} \rangle$	57					/
PROJECT NAME: RC/C	145	PRO	JECT NO.:		T	C=	Required (3)	/ /		/ /				7	/ .	Ι,		/ /	
SITE LOCATION: 7/00	2 / 10.	P.O. 1	Ko.:		i N	COMP	% /		N	ln./	B	A			' /	/		′	
SAMPLERS:					E	G = GRAB	/	.₩ s	N E		\mathcal{F}_{i}	$\langle \langle \langle \rangle \rangle \rangle$	\bigvee_{i}	Y /_/	ut √				
LAB NO. SAMPLE IDENTIFICA	TION	DATE	TIME	MATRIX (See Codes)	R S		87	1	WY CONTRACTOR	7 3	100.00			A	Y			REM	IARKS
001		2/16	3:00%	Water	2	a	X	X	X									Ex H	,6
002		2/16	3:00 m	Water	/	6				X								Ex H,	.0
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Relinquished By: (3)	Dan	Time	Received	By:			Spec	iai ins	structio	ons:		7	1	an	- A	2	1.1	1	,
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							0	V	·	de	24		nc		/	11	-		

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.

Page 7 of 8



Phase Separation Science, Inc

Sample Receipt Checklist

Work Order # 11021711				Received By	Sara Dorr				
Client Name	Atlas Environmenta	l Services, L	LC	Date Received	02/17	/2011 01:15:00 PI	M		
Project Name	KCR			Delivered By	Dial C	Courier			
Project Number	N/A			Tracking No	Not A	pplicable			
Disposal Date	03/24/2011			Logged In By	Sara I	Dorr			
Shipping Contai	ner(s)								
No. of Coolers	1			Ice	P	resent			
Custody Seal(s) Seal(s) Signed			N/A N/A	Temp (deg C) Temp Blank Pres					
Documentation				Sampler Name	TWY 157 46 31	ıl Stoecklin			
COC agrees with Chain of Custoo	th sample labels? dy		Yes Yes	MD DW Cert. No.	N/A				
Sample Containe	er			Custody Seal(s) I	ntact?	Not Applicable			
	Specified Analysis?		Yes Yes	Seal(s) Signed / [Dated	Not Applicable			
Labeled and La	bels Legible?		Yes						
Total No. of Sar	mples Received 3			Total No. of Conta	ainers I	Received 5			
Preservation									
Metals			(pH<2)	N/A					
Cyanides			(pH>12)						
Sulfide TOC, COD, Phe	anole		(pH>9) (ph<2)	N/A N/A					
TOX, TKN, NH3			(pH<2)	N/A					
	DA Vials Rovd Prese	rved)	(pH<2)	Yes					
Do VOA vials ha	ave zero headspace	?		Yes					
Comments: (An	ıy "No" response	must be d	etailed i	n the comments	section	on below.)			
documentation of a should be analyzed preservation shall hand delivered on	preservation conditions, any client notification as d as soon as possible, p be considered acceptat the day that they are co e chilling process has b	s well as client preferably in the ple when receivallected may no	instruction e field at the yed at a ten t meet the	ns. Samples for pH, ch te time of sampling. So nperature above freezi se criteria but shall be	nlorine a amples ng to 6°	and dissolved oxyger which require therma C. Samples that are	al		
Samples Inspected/0	Checklist Completed By:	Saw Don	Sara Dorr	Date:	02/17/20	011			
PN	M Review and Approval:	SWS	imon Crisp	Date:	02/17/20	011			

03/04/2011 KCR JV Page 20 of 73

Page 8 of 8



f e					010	naa	The Charles and	Glycols for Recy	Cang
Date:	4. C.M. 11. 1		Docume	nt# 🗛	745	yyy .		Kerosene and W	ater for Recycling
Generator	/Shipper:		1 7					Mineral Oil for	Recycling
Kc	R -	محدة	JENT	Rr .	, let kebel			Oil for Recycling	
US EPA II	D#:							Oll, Water for R	ecycling
Address:		n						Wastewaters	
116	,54	11	IZA AM	INT NO P	2 71	7>	Non RC	* 1 P. O. C.	Regulated Material, Solids
City:				States	Zip:		Line	Material	
City Pe	STAV	i e e e e e e e e e e e e e e e e e e e		States	Zip:	190	 200 0	Ash, Fly	
				Phones				Debris, C & D r	Palad
<u> </u>	, For r			21/-	409.	34/6		aged a gifty of the half hillioning of all from the fifther place is and	m Impact, Specify:
	, ,				er en	7//6		Drums, Empty	in mpaci, openy:
one.	STRUT		C					A Company of the Comp	ling, Petroleum Impacted:
<u>المن ما ال</u>	SIRVEN	***		agai ga sabba at gaal Tarahan					
Address:	7,7,7	-	r wa	an T				Sludge, Industri	
74.	1100	, ,,	ruce	geg ik	7352			Sludge, Oil	
CES				State:	Zip;			Sludge, Tank Bo	
		. 34 P. C.							Impacted, Specify:
	er No. 1:	1172	r s E.	vancorry	(m*)» (Jues		Soil, Oil	
US EPA II)#:			Phone: 7	U 3. 337	7970		Sorbents, Diesel	Fuel
Transport	er No. 2:	PICE	5					Sorbents, Oli	
us epa 11				Phone:				Other	
Facility:							DOT Re	gulated / Non.	RCRA Materials - Liquids
EFAiles E	nvironmenta	l Service:	s, LLC, 10139 G	iles Run Road, l	Lorion, Vin	ginia 22079	Line	Material	
Other:								Gasoline Mixtur	e 3, UN1203, PGH ERG #128 for Recycling
eli etter 1000. Oliveride					in the same			Committee of the Commit	203, PGH ERG #128 for Recycling
									,4,5,or 6) 3, NA1993, PGII ERG #128
Additional	Informatio	n:			eral Value a lege		3.2 2 2 2 2 2 3		93 PGIII ERG #128
									wrbine Engine 3, UN1863, PGII ERG #128
		3.7	ir Emergency I		de de alte			The second secon	1223, PGIII, ERG #128
er i e e e e e e e e e e e e e e e e e e	per an artist de la companie) i	* 703-339- 9	//0	and the second second			Other	
Line	Contair No.	Type	Total Quantity	Unit Wt./ Vol.	Quantity Liquid	Quantity Solid	Quantity Sludge		Notes
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1		× 1							
6	L			L	an entre de la constanta				
as defir classific local re	ed by RCI	RA. I he	reby declare t	hat the conten	its of this	consignment	are fully an	d accurately descri	I regulations for disposal of Hazardous Was ribed above by proper shipping name and a ray according to applicable federal, state, an Month/Day/Year
		ر جا کا	1			Years	- tdu) 1.	01/19/11
Transpor	ter I Ackn	owledg	ement of Rec	eipt of Materi	als ·	/ _			
Type / Pro	t Name:	ati	LOA.			Signature)[#	110	Month/Day/Year
		owledg	ement of Rec	eipt of Materi	als				
Type / Pric	it Name:					Signature:			Month / Day / Year
Discrepan	cy Indicatio	n Space					A	7	
D-1111					(-		HK 1		
		perato	r: Certificatio	n or receipt o	nateria	is covered		except as note	ed in Discrepancy above.
Typé/Pri		MEC	KUP		03/04/2	organiuse:	A Also	of 73	Month / Day / Year
		e systems							

Line

Material

SHIPPING DOCUMENT

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Diesel and Water for Recycling



10139 Giles Run Road, Lorton, VA 22079

Jan specie			/	44	
Type / Poor Name	0:	3/04/2011	Simple	Page 22 of	Month/Day/Year/
Facility Owner or Operator: Ce				this manif	est except as noted in Discrepancy above.
				2 - 1	
Discrepancy Indication Space					
Type / Print Name:			Signature:		Month / Day / Year
Transporter 2 Acknowledgemen	t of Receipt of Materia	als /		<u>' '/ </u>	
THU STORGELL			116	(/\/h	a maple
Type // Fint Name:			Signature:	7/1/i	Month / Day / Year
Transporter 1 Acknowledgemen		als			
Type / Print Name: / Fex 7	FRERAIDA		Signature:		Month / Day / Year
local regulations.					
classified, packed, marked, and					ansport by highway according to applicable federal, sta
as defined by RCRA I hereby	my the materials described declare that the content	bed above ts of this	UN UNS COÇU Consignment	are fully an	t subject to federal regulations for disposal of Hazardous d accurately described above by proper shipping name a
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1 2 1316 4	1) HINDS		40		ABSOLDER -
	antity W. / Vol.	Liquid	Solid	Sludge	Notes
Containers 7	Total Unit	Quantity	Quantity	Quantity	N
	03-339-9770	in e liga. Marakanan			Other
	ergency Phone Number				Kerosene, 3, UN 1223, PGIII, ERG #128
		35 T			Fuel, Aviation, Turbine Engine 3, UN1863, PGII ERG #12
Additional Information:					Diesel Fuel 3, 1993 PGIII ERG #128
				19 (45, 147, 198, 48	Fuel Oil (No. 1,2,4,5,or 6) 3, NA1993, PGH ERG #128
					Gasoline 3, UN1203, PGH ERG #128 for Recycling
☐ Other:					Gasoline Mixture 3, UN1203, PGII ERG #128 for Recycli
Atlas Environmental Services, LLC	., 10139 Giles Run Road, L	orton, Virg	ginia 22079	Line	Material
Facility:			,	DOT Re	gulated / Non, RCRA Materials - Liquids
US EPA ID #:	Phone:				Other
Transporter No. 2:					Sorbents, Oil Hydraws
US EPA ID#:	Phone:				Sorbents, Diesel Fuel
Transporter No. 1: ATLAS Es	WIROUMENT.	42 35	RULG	3	Soll, Oil
The lost	\mathcal{A}				Soil, Petroleum Impacted, Specify:
City: 1	State:	Zip;			Sludge, Tank Bottom
7100 Near	SONING S	ST			Sludge, Oil
Address:					Sludge, Industrial
Construction	SITE	1.0			Filters for Recycling, Petroleum Impacted:
Site					Drums, Empty
Im Foks					Debris, Petroleum Impact, Specify:
Contect	Phone:				Debris, C & D related
VESTUV	VH	Zip: 20	150		Ash, Fly
City://	State			Line	Material
11654 HAZA,	America Di	PIVE	177	Non RC	RA/Non DOT Regulated Material, Solids
	1	1 1 1 1 1 1 1 1			Wastewaters
US EPA ID#:					Oil, Water for Recycling
KCK J	INT VERTURE				Oil for Recycling
				1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Mineral Oil for Recycling
Date: 1/20/2011 D	ocument# A	009	313		Kerosene and Water for Recycling
Jan				-	Glycols for Recycling
Phone: 703-339	-9770 Fax: 703-339-	9771	in the fire		Diesel and Water for Recycling
	n Road, Lorion, VA 2				Petroleum Impacted Water / Commercial Contact Water

SHIPPING DOCUMENT

Non RCRA/Non DOT Regulated Material, Liquids

Material

ATLAS Environmental Services, LLC

	3/11/2017	iles D.	n Dand T	orton, VA	22070			Petroleum Impacted Water/Commercial Contact Water		
	Phone: 7	/03-330		ax: 703-339	44017)-9771			Diesel and Water for Recycling		
				and the continued in the bands of		00		Glycols for Recycling		
Date: 1	Zilii	D ₀	cument	# A 0	IU82	30		Kerosene and Water for Recycling		
Generator/	Shipper:	_	15. The second s					Mineral Oil for Recycling		
C	CI	e_{J}	V	daya sarahida ya				Oil for Recycling		
US EPA ID)#:						2	Oil, Water for Recycling		
Address:								Wastewaters		
					ale alaman		Non RC	RA/ Non DOT Regulated Materials, Solids		
City:		11/2000	State:		Zip:		Line	Material		
	. :				T-4"			Ash, Fly		
Contact:				Phone:	Lance Co			Debris, C&D related		
-viitavi.				I mono.				Debris, Petroleum Impact, Specify:		
Sita	-						No. 20 Page 1	Drums, Empty		
Con	<u> </u>	Nr. (2		1475 a.c.				Filters for Recycling, Petroleum Impact d:		
	<u> 21 - 7</u>	<u>ے،،،ر</u>			ing the second s					
Address:	na It	aller	STO	1 0 A	San San			Sludge, Industrial		
	<u> </u>	~ 11			T_:			Sludge, Oil		
City;			State		Zip:			Studge, Tank Bottom		
<u> </u>								Soil, Petroleum Impacted, Specify:		
ransporter	No. 1: A	25 H.	s Emb	OVV	WIN.			Soil, Oil		
JS EPA ID				Phone:		A Allegains A	e sources	Sorbents, Diesel Fuel		
ransporter		4 5						Sorbents, Oil		
JS EPA ID	#:			Phone:			1977,250,975,400,000	Other		
acility:	e a servicia-pa						DOT Re	gulated/Non RCRA Materials-Liquids		
CAtlas Envi	ironmental So	rvices, LL	.C, 10139 Gil	es Run Road, L	orton, Virgi	nia 22079	Line	Malerial		
J Other:								Gasoline Mixture 3, UN1203, PGH ERG #128 for Recycling		
								Gasoline 3,UN1203,PGII ERG #128 for Recycling		
3. T. T. T.				Japan Sarah				Fuel Oll (No.1,2,4,5,or 6) 3,NA1993,PGII ERG #128		
Additional !	Information	1;			7 1 7 18 2 18 Y	· · · · · · · · · · · · · · · · · · ·		Diesel Fuel 3,1993 PGIII ERG #128		
					ar Waliotaan			Fuel, Aviation, Turbine Engine 3, UN1863, PGII ERG #128		
i,	أمعربته	A4 371		nt x7t. :				Kerosene, 3, UN 1223,PGIII, ERG #128		
e Service		24 HOUF I	339-9 703-339	Phone Numbe 770	T.			Other		
	Conta		Total	Unit	Quantity	Quanity	Quantity			
Line	No.	Туре	Quantity	Wt./Vol.	Liquid	Solid	Sludge	Notes -		
	10	BYFIS	15		193					
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			173	LAL						
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SHIPPING DOCUMENT

Non RCRA/Non DOT Regulated Material, Liquids
Line Material



SHIPPING DOCUMENT

Environi	mental S	Service	s t.t.	C	Non RC	RA/Non DOT Regulated Material, Liquids
					Line	Material
	s Run Road, I 3-339-9770 Fa				Petroleum Impacted Water / Commercial Contact Water	
Phone: 703	-339-8110 F	ax. /U3-339-	9111			Diesel and Water for Recycling
			000	011		Giyeols for Recycling
Date!	Documen		UUS	911		Kerosene and Water for Recycling
Generatory, Shippep:)		mus				Mineral Oil for Recycling
$+$ C 1 U $_{\odot}$	uni U	MUM				Oil for Recycling
US EPA ID#;						Oil, Water for Recycling
Address:			North St			Wastewaters
					Non RC	RA/Non DOT Regulated Material, Solids
City:		State:	Zip:		Line	Material
					Die Starffester abeid	Asb, Fly
Contact:		Phone:				Debris, C & D related
						Debris, Petroleum Impact, Specify;
Sper					0.0000.0000.000	Drams, Empty
CONST.				jula la mali		Filters for Recycling, Petroleum Impacted:
Address: 7///		برسير س)			Sludge, Industrial
	NULU	ン ルベ				Sludge, Oil
City:		State A	Zipi			Sludge, Tank Bottom
LOTAU					1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Soil, Petroleum Impacted, Specify:
Transporter No. 1: 47-71_	112 C	DVIICO	NAC	U7176	2	Soil, Oil
US EPA ID#;		Phone:				Sorbents, Diesel Fuel
Transporter No. 2:						Sorbents, Oil
US RPA ID#:		Phone:				Other
Gellity:			* ;		DOT Re	gulated / Non, RCRA Materials - Liquids
Atlas Environmental Service	s, LLC, 10139 Gi	les Run Road, L	.orton, Vir	ginia 22079	Line	Material
Other:						Gasoline Mixture 3, UN1203, PGH ERG #128 for Recycling
						Gasoline 3, UN1203, PGII ERG #128 for Recycling
			1.24 (4.5)			Fuel Oil (No. 1,2,4,5,or 6) 3, NA1993, PGII ERG #128
Additional Information:					140.00 to 100.00	Diesel Fuel 3, 1993 PGIII ERG #128
and the second s			*			Fuel, Aviation, Turbine Engine 3, UN1863, PGH ERG #128
24 Ho	ur Emergency P	bone Number				Kerosene, 3, UN 1223, PGIII, ERG #128
	703-339-97			n de grand de gebeurg. Na sand de gebeurg		Other
Line Containers	Total	Unit	Quantity	Quantity	Quantity	Name
No. Type	Quantity	Wt. / Vol.	Liquid	Solid	Sludge	Notes
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	. / j					
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as defined by RCRA. I he	reby declare th	at the conten	ts of this	consignment	are fully an	it subject to federal regulations for disposal of Hazardous Wast id accurately described above by proper shipping name and ar ransport by highway according to applicable federal, state, an
Type / Print Name;	くばん	Dorko	١	Signature:	17 .	Month / Day Year
Transporter 1 Acknowledg			als .		+77	
Type Print Name: A	3 C	V		Signature:	77	Morth/Day/Year
Transporter 2 Acknowledg	ement of Rece	pt of Materi	als			
Type / Print Name:				Signature:	10 -	Month / Day / Year
Discrepancy Indication Space					<i>,</i>	
				1	الم	//
	r: Certification	of receipt of	l materi		the plant	est except as noted in Discrepancy above.
Type / Print Name:	1			Signatury: /	INL	Month / Day / Year
JANK STOEL	wu.		03/04/2	WI-KCRIJ	V Fige-24	



	LIIO	/ ле: 703-	יב עו וע-עכני	ax. 103-339-	7//1			Diesel and Water	for Recycling
	12 /1	11.			nna	909		Glycols for Recycl	
Date:	T/A	. 1 W	Docume		UUG	<u> </u>		Kerosene and Wa	
Generator	/Shipper:		Venna					Mineral Oil for Re	ecycling
		0241	VENTA	£				Oil for Recycling	
US EPA II	#:							Oil, Water for Rec	ycling
Addatase	TAI	0	ZE Armi	12				Wastewaters	
11.4	<u> </u>	1 4	Sr / Trui	LT to Im	•		Non RC		egulated Material, Solids
City;				State	Zip:	ing spanishing	Line	Material	
14	STON			V/-				Ash, Fly	
Contact:				Phone:				Debris, C & D rela	ated
<u> </u>								Debris, Petroleum	Impact, Specify:
Site;								Drums, Empty	
	~ 21 B	UCTTO	~ S++					Filters for Recycli	ng, Petroleum Impacted:
Address:						- 1411 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Sludge, Industrial	
Address:	100							Sludge, Oil	
		111111111111		States	Zip:			Sludge, Tank Bott	om
City	tor			State:				Soil, Petroleum In	
an agent of the state of the st		۸ ۸	a ENV. S	Control of the second			<u> </u>	Soll, Oil	
US EPA II		<u> </u>		Phone:				Sorbents, Diesel F	hel
				T Hone:			1 - 7 -	Sorbents, Oil	
Transporte				Phone:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Other	
US EPA II Facility:)#;			Phone:			DOED	The Total Control of the Control of	CDA Matariala Tianida
	wironments	l Carrices	, LLC, 10139 Gi	les Run Road I	arion. Viro	inia 22079	Line	Material	CRA Materials - Liquids
		d Dei view,	, 2200, 1025, 61	10 1100 11000, 1	TOT COURS A TYPE		Lane		
Other:			•						3, UN1203, PGII ERG #128 for Recycling
			•		•		ļ ———		3, PGII ERG #128 for Recycling
							 		,5,or 6) 3, NA1993, PGH ERG #128
Additional	Informatio	n:							3 PGIII ERG #128
		100							rbine Engine 3, UN1863, PGH ERG #128
		24 Hou	r Emergency P				14 17 21 22	Kerosene, 3, UN 1	223, PGIII, ERG #128
<u>.</u>			703-339-97	70				Other	
	Contai	ners	Total	Unit	Quantity	Quantity	Quantity		
Line	No.	Туре	Quantity	Wt. / Vol.	Liquid	Solid	Sludge		Notes
1	003	BO	1001	P		7			
		9=-1							
3									
4		┪╌╌┼			1				
5		++			-				
6									
General as defir classific local re	ed by RC ed, packed gulations.	RA. I her , marked	reby declare th	nat the conten	ts of this	consignmen	t are fully and	d accurately descri	regulations for disposal of Hazardous Was bed above by proper shipping name and a y according to applicable federal, state, an
Type / Pair	t Name:	7				Signature:			Month / Day / Year
			Lesse			4		and the second	1/26/11
		nowledge	ment of Rece	ipt of Materi	als				
Type / Prin	4:-14		T. Cum			Signature:			Month / Day / Year
		nowledge	ment of Rece	ipt of Materi	als				
Type / Pri	it Name:	,				Signature:			Month / Day / Year
	m Indianti	n Space							
				110000		takin tida di le			
F cility C	wher op	Operator	: Certificatio	n of receipt o	f materia	s covened)	ty/life manif	est except as noted	l in Discrepancy above.
Type / Pri	wher op			n of receipt o	1 materia 03/04/201	is covered)	tyliks manif	est except as noted	I in Discrepancy above. Month / Day / Jear

SHIPPING DOCUMENT

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Material

Line

Environmental Services, LLC

SHIPPING DOCUMENT

· F	nviron	mental	Services	s. I.I.	\mathbf{C}	Non RC	RA/Non DOT	Regulated Material, Liqui	ds
		A .			•	Line	Material		
•	10139 Gil	es Run Road,	Lorton, VA 2 ax: 703-339-	2079			Petroleum Imp	acted Water / Commercial Conta	ct Water
,	1/15/1411	3-339-9//U I	'ax: /05-559-	9//1				er for Recycling	
f	THUT!			000	040		Glycols for Rec		
Date:	之 国 //	Docume	nt# A	UUS	1912			Vater for Recycling	<u></u>
Generator /8h	isher:						Mineral Oil for		
K-(C	or IRI	MIST	4.			Oil for Recyclin		
US EPA ID#:	<u> </u>	0 =	-			2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Oil, Water for I		
Address:	¥3 19						Wastewaters		
120415.			() N			Non RC		Regulated Material, Solids	<u> </u>
City:			State:	Zip:		Line	Material	aceguated material, Some	<u> </u>
City.			Diane.	Σάρ.		Inne	Ash, Fly		
Contact:			Phone:				Debris, C & D	related	<u></u>
Contact.			z none.					um Impact, Specify:	
Sijé: }	()	and the second s				0.000	Drums, Empty	and impact, specify.	
MS	T V	163						cling, Petroleum Impacted:	
133	1					<u> </u>			
Address:	n/ no	11 = X-	-16	1 1			Sludge, Industr	300 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	
7.0	01 00			T		l	Sludge, Oil		
City:	5700		State:	Zip:		<u> </u>	Sludge, Tank B		
		, <u> </u>		14.7	s : 7.C-	 		Impacted, Specify:	
Transporter N	o.1; / '	CMS (MULLICON	//L1 C1	<u> </u>		Soil, Oil		
US EPA ID#:			Phone:		3. * · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sorbents, Diese	I Fuel	
Transporter No	0. 2:						Sorbents, Oil		
US EPA ID#:			Phone:				Other		
Facility:								RCRA Materials - Liquid	ls
	onmental Service	s, LLC, 10139 G	iles Run Road, L	orton, Vir	ginia 22079	Line	Material		
Other:				٠,			Gasoline Mixtu	ire 3, UN1203, PGH ERG #128 fo	r Recycling
* •	1.00						Gasoline 3, UN	1203, PGII ERG #128 for Recycli	ing
N. S. S. S.	196 <u>8 - 1964 - 1</u> 3	, egal a la	11 11 (18)		The second second	E States	Fuel Oil (No. 1,	2,4,5,or 6) 3, NA1993, PGH ERG	#128
Additional Info	ormation:				Victoria de la composição de la composição La composição de la composição		Diesel Fuel 3, 1	993 PGIII ERG #128	
***					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Fuel, Aviation,	Turbine Engine 3, UN1863, PGII	ERG#128
	24 Ho	ur Emergency l	Phone Number				Kerosene, 3, Ul	N 1223, PGIII, ERG #128	
		703-339-9				100000000000000000000000000000000000000	Other		
	Containers						T		
Line I		Total Quantity	Unit Wt. / Vol.	Quantity Liquid	Quantity Solid	Quantity Sludge		Notes	4
	No. Type		Mr. 1 AOE	ridaia	Some	Sinake			<u> </u>
	2 UM	60	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				<u> </u>		
$\frac{2}{2}$									
3						3.73			
4			<u> </u>						
5							4		
<u>6 L</u>									
as defined l	by RCRA. I h packed, marke tions.	ereby declare t	that the content	s of this	consignment	are fully and	d accurately desc	ral regulations for disposal of H cribed above by proper shippin way according to applicable fee Month/Day/Year	ng name and ar
ALL	771		elpt of Materia		\$13.II.E	28_0	p ^{red}	1 2 9 1 /	
Type / Print/N		somest of Mec	PIPE OF MERCELL		Signature:	-Y/-		Mouth Day / Year	
<u></u>	/ Cu				oiguature.	$A \subseteq$			
		gement of Kec	eipt of Materia	arz	Tev====		<u>1941 (Albert 2013)</u> New York of the Control of the Control		
Type / Print Na	яще:		*		Signature:			Month / Day / Year	
Discrepancy In	idication Space	!			L	1			
-					$\cdot/ \cap \lambda$,		
racinty Oyn	er or operate	r: Certificatio	n of receipt of	materia		y ars manife	est except as bo	ted in Discrepancy above.	
Type / Pakit No	- 5785C	JULI-		03/04/201	Signature	Page 26 of	73	Month/Day/Year	MA

Environmental Services, LLC

1111				Lorton, VA				Petroleum Impacted Water/Commercial Contact Water
	Phone: 7	03-330	n Koau, L)-977() F	ax: 703-33	9-9771		6	Diesel and Water for Recycling
gail.				25		AE		Glycols for Recycling
Date: 2	5/5/11	Do	cument	t# A	0094	45		Kerosene and Water for Recycling
Generator/		. /	7					Mineral Oil for Recycling
	1	CK	_					Oil for Recycling
US EPA ID)#: t						1	Oil, Water for Recycling
Address:								Wastewaters
							Non RC	RA/ Non DOT Regulated Materials, Solids
City:			State:		Zip:		Line	Material
1								Ash, Fly
Contact:			S. S	Phone:				Debris, C&D related
								Debris, Petroleum Impact, Specify:
Site		شد	2					Drums, Empty
Co	-	`	VIO					Filters for Recycling, Petroleum Impacted:
Address:		,						Sludge, Industrial
	NEW	フレ	5				100	Sludge, Oil
City:			State		Zip:			Sludge, Tank Bottom
90] L		SH	_			\ 	Soil, Petroleum Impacted, Specify:
Transporter	No. 1:	2+1.	25	HIRON	MIN	4/4		Soil, Oil
US EPA ID	the second second	11	مع کند	Phone:	31.0010	21		Sorbents, Diesel Fuel
Transporter	No. 2:							Sorbents, Oil
US EPA ID	1717/2014/1915			Phone:				Other
Facility:							DOT Rec	gulated/Non RCRA Materials-Liquids
	ronmental Se	rvices, LL	.C, 10139 Gil	es Run Road, L	orton, Virgir	ia 22079	Line	Material Materials
Other;							Line -	Gasoline Mixture 3,UN1203,PGII ERG #128 for Recycling
Li Other,							 	Gasoline 3,UN1203,PGII ERG #128 for Recycling
								Fuel Oil (No.1,2,4,5,or 6) 3,NA1993,PGII ERG #128
Additional I	nformation						l ———	Diesel Fuel 3,1993 PGIII ERG #128
Auditional I	inormation.	(1)					 	
	2	namen na	2021 2	and rough th			 	Fuel, Aviation, Turbine Engine 3,UN1863, PGII ERG #128 Kerosene, 3, UN 1223,PGIII, ERG #128
	2	4 Hour l	Emergency I 703-339-9	Phone Numbe	er			Other
			103-337-7	770				Olici
	Contain	ners	Total	Unit	Quantity	Quanity	Quantity	
Line	No.	Type	Quantity	Wt./Vol.	Liquid	Solid	Sludge	Notes
1	1	PT	57	SAC				
2	6	BASS	120	lbs				
3		,						
4								
5								
6								
Generator's	s Certificat	ion: I ce	ertify the ma	aterials descr	ibed abov	on this doc	ument are not	subject to federal regulations for disposal of Hazardous Waste
as defined b	y RCRA. I	hereby	declare tha	t the content	s of this co	nsignment a	re fully and ac	curately described above by proper shipping name and are
		rked, an	d labeled, a	nd are in all	respects in	proper cond	lition for trans	sport by highway according to applicable federal, state, and
local regula						P. Marchanton and Co.	//	les find the
Type/Print N		3-0	900	21-2		Signature:	./	Month/ Day/ Year:
				ipt of Materia	ale	-	3	19411
Type/Print D		ricugein	CITE OF RECEL	pt of materi		Signature.		Month/ Day/ Year
3		0	0			Olghanc.	-01_	77711
Transporter	r 2 Acknow	rledgem	ent of Recei	ipt of Materi	als			441
Type/Print N						Signature:		Month/ Day/ Year
								Temperatures 2004 Constitute 1
Discrepancy	y Indicatio	n Space					\$ S	
Facility Ox	her or One	rator : (Certification	n of receint o	f material	covered by	this manifest e	except as noted in Discrepancy area above.
Type/Print	lame:					Signature:	11/1	Month/ Day/ Year O
1	Auc	2700	EULL	<u></u>		111	11 1/2	2/2/11
							-	

SHIPPING DOCUMENT

Non RCRA/Non DOT Regulated Material, Liquids

Material

Line

03/04/2011 KCR JV Page 27 of 73 **ORIGINAL: RETURN TO GENERATOR**

10139 Giles Run Road, Lorton, VA 22079

	Phone: 7	03-330	9-9770 F	ax: 703-339	-9771			Diesel and Water for Recycling
				-		200		Glycols for Recycling
Date:	TEB 11	/_Do	ocument	# A 0	108	UU		Kerosene and Water for Recycling
Generator/	Shipper:		17		`	0		Mineral Oil for Recycling
(CR	20	1000	Ven	14-01			Oil for Recycling
US EPA ID)#:							Oil, Water for Recycling
Address:							3	Wastewaters
							Non RC	RA/ Non DOT Regulated Materials, Solids
City:			State:		Zip:		Line	Material
								Ash, Fly
Contact:				Phone:				Debris, C&D related
								Debris, Petroleum Impact, Specify:
Site:			1					Drums, Empty
710	no At	Sull	es Toll	nd Con	Much	tion outo		Filters for Recycling, Petroleum Impacted:
Address:	o cut		01 1001	Jus Con	www	april no e		Sludge, Industrial
								Sludge, Oil
City			State 1		Zip:			Sludge, Tank Bottom
0 C	5501	~	1	A-				Soil, Petroleum Impacted, Specify:
_			nutromi	Tal Co	4/04			Soil, Oil
US EPA ID)#: 1 b	000	USDED	Phone: -703	nices	0771		Sorbents, Diesel Fuel
Transporter	1017	Kew	CIRRD	Thome. 170	1.55	1///	1	Sorbents, Oil
US EPA ID				Phone:				Other
Facility:	· · · · · · · · · · · · · · · · · · ·			I Hone.			DOT D.	ACTAMAN
	ironmental Se	ervices, Ll	LC, 10139 Gil	es Run Road, Lo	orton, Virgi	nia 22079	-	gulated/Non RCRA Materials-Liquids
		E81,000 to to \$ 0 cm	14 V.C. *(2.200.14800-1-1010			NAME OF TAXABLE PARTY.	Line	Material Control of the Control of t
☐ Other:							l —	Gasoline Mixture 3,UN1203,PGII ERG #128 for Recycling
							l ——	Gasoline 3,UN1203,PGII ERG #128 for Recycling
							l ——	Fuel Oil (No.1,2,4,5,or 6) 3,NA 1993.PGII ERG #128
Additional	Information):					l ———	Diesel Fuel 3,1993 PGIII ERG #128
							l	Fuel, Aviation, Turbine Engine 3,UN1863, PGII ERG #128
	1	24 Hour	Emergency	Phone Number	T.			Kerosene, 3, UN 1223,PGIII, ERG #128
			703-339-9	770			l	Other
	Contai	iners	Total	Unit	Quantity	Quanity	Quantity	
Line	No.	Туре	Quantity	Wt./Vol.	Liquid	Solid	Sludge	Notes
1	1	17	WP	GALLAS		-0	0	
2	6	By	(0	Pag	100			
3	-	1009	10_	- Del				
4								
5	-	_						
6		+		 			-	
7.50	's Certifica	tion: L c	ertify the m	aterials descri	hed abov	e on this doc	ument are not	subject to federal regulations for disposal of Hazardous Waste
And the second of the second of the			the second of the second of the second					curately described above by proper shipping name and are
		-				-		port by highway according to applicable federal, state, and
local regul	ations.							
Type/Print	Name: Ac	zerit	for Go	merator		Signature:		Month/ Day/ Year: 7/7/1/
Transport	er 1 Ackno	vledgem	ent of Rece	ipt of Materia	ls			, , ,
Type/Print	Name: N	NICIE	11 TAC	lace		Signature:	son Dowt	Month/Day/Year
Transport	er 2 Acknow	wledgen	ent of Rece	ipt of Materia	ls	1	Dec 2001	
Type/Print				•		Signature:		Month/ Day/ Year
Discrepan	cy Indicati	on Space	e				-	
)	/
Facility O	wher of Op	erator?	Certificatio	pof receipt of	materia	ls covered by	this manifest e	except as Abted in Discrepancy area above.
Type/Pright	Name: /	(1	10			Signature:	11/	Month/ Day/ Year
ta	4/1/4	Joe	when			fort/	Span	11/201
	-	1			0		/	

SHIPPING DOCUMENT

Petroleum Impacted Water/Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Material



Date:

Document# A

Generator / Shipper:					Mineral Oil for Recycling
KCR JUENT VENT	me				Oil for Recycling
US EPA ID#:				-2	Oil, Water for Recycling
Address:					Wastewaters
				Non RCI	RA/Non DOT Regulated Material, Solids
City:	State:	Zip:		Line	Material
					Ash, Fly
Contact:	Phone:				Debris, C & D related
					Debris, Petroleum Impact, Specify:
Site:					Drums, Empty
OIL SPIL SING		*			Filters for Recycling, Petroleum Impacted:
Address:					Sludge, Industrial
Address; PLOO & W+QD. City: Restor Transporter No. 1: Array Ext. Six	Troca				Sludge, Oil
City: a	State:	Zip:			Sludge, Tank Bottom
Reston	VI				Soil, Petroleum Impacted, Specify:
Transporter No. 1: Array ENV. SU	· .				Soil, Oil
US EPA ID#:	Phone: 70	17-337	9220		Sorbents, Diesel Fuel
Transporter No. 2:			7.7.0	7	Sorbents, Oil
US EPA ID#:	Phone:				Other
Facility:	1 Souther Williams			DOT Res	gulated / Non, RCRA Materials - Liquids
Atlas Environmental Services, LLC, 10139 Gi	les Run Road, L	orton, Virg	ginia 22079	Line	Material
Other:					Gasoline Mixture 3, UN1203, PGII ERG #128 for Recycling
					Gasoline 3, UN1203, PGII ERG #128 for Recycling
					Fuel Oil (No. 1,2,4,5,or 6) 3, NA1993, PGII ERG #128
Additional Information:					Diesel Fuel 3, 1993 PGIII ERG #128
					Fuel, Aviation, Turbine Engine 3, UN1863, PGII ERG #128
24 Hour Emergency P	hone Number				Kerosene, 3, UN 1223, PGIII, ERG #128
703-339-97					Other
	100 W	1			
Line Containers Total Quantity	Unit Wt. / Vol.	Quantity Liquid	Quantity Solid	Quantity Sludge	Notes
	Wt. 7 Vol.	Liquid	190	Sinage	
1 004 BA 100 2 001 TT 115	1	-	190		
3	0	1/3			
4					
5					
6		+			
	l aterials describ	ned above	on this docu	ment are not	subject to federal regulations for disposal of Hazardous Waste
as defined by RCRA. I hereby declare the	hat the content	s of this	consignment	are fully and	d accurately described above by proper shipping name and are
classified, packed, marked, and labeled,	and are in all	respects	in proper cor	ndition for tra	ansport by highway according to applicable federal, state, and
local regulations.	955			1	
Type / Print Name:			Signature:	-10	2 Month / Day / Year
Transporter 1 Acknowledgement of Rece	int of Motowic	ala	7		2/10/2011
Type / Print Name:	ipt of Materi	ais	Signature:	1	Month / Day / Year
Type / Frint Name: DOWN SAS	$\alpha \mathcal{N}$		Signature.	lason	TOWELL FEB 10 2011
Transporter 2 Acknowledgement of Rece	ipt of Materia	als		1	1100 /00 0000
Type / Print Name:		orthograph i	Signature:		Month / Day / Year
Discrepancy Indication Space					
			()	1	
Facility Owner of Operator: Certificatio	n of receipt of	f materia	ls covered by	this manife	
Type / Print Name:			Signaturo!	111	Month / Day / Year 1014
AM STEERLY		00/0::	Jen L	11/10	
,	(ORIGINA	2011 KCR IL: RETURI	NTO GENE	9 of 73 RATOR
			And the second second		

SHIPPING DOCUMENT

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Diesel and Water for Recycling

Kerosene and Water for Recycling

Glycols for Recycling

Material

Line

010042



1.06	A	009	848		Glycols for Recycling
Date: 7 (4) 11 Document	nt# A	000	040		Kerosene and Water for Recycling
Generator / Shipper:					Mineral Oil for Recycling
					Oil for Recycling
US EPA ID#:				1	Oil, Water for Recycling
Address:					Wastewaters
				Non RCF	RA/Non DOT Regulated Material, Solids
City:	State:	Zip:		Line	Material
					Ash, Fly
Contact:	Phone:				Debris, C & D related
					Debris, Petroleum Impact, Specify:
Site:					Drums, Empty
Const. 246					Filters for Recycling, Petroleum Impacted:
Address: /			6		Sludge, Industrial
7100/24					Sludge, Oil
City: A	State: [.	Zip:			Sludge, Tank Bottom
leston)	UN		1		Soil, Petroleum Impacted, Specify:
Transporter No. 1: HYPE	ripier	~ 5	10	Name of the last	Soil, Oil
US EPA ID#:	Phone:	,			Sorbents, Diesel Fuel
Transporter No. 2:	- I Mone.			7/	Sorbents, Oil
US EPA ID#:	Phone:				Other
Facility:	T Hone.	-		DOT Rec	gulated / Non, RCRA Materials - Liquids
☐ Atlas Environmental Services, LLC, 10139 Gi	les Run Road, L	orton, Virg	inia 22079	Line	Material
☐ Other:	17.0	- 555	•	Dine	Gasoline Mixture 3, UN1203, PGH ERG #128 for Recycling
			1		Gasoline 3, UN1203, PGH ERG #128 for Recycling
					The second state of the second
Additional Information:					Fuel Oil (No. 1,2,4,5,or 6) 3, NA1993, PGII ERG #128
Additional Information.					Diesel Fuel 3, 1993 PGIII ERG #128
					Fuel, Aviation, Turbine Engine 3, UN1863, PGH ERG #128
24 Hour Emergency P					Kerosene, 3, UN 1223, PGIII, ERG #128
703-339-97	770				Other
Line Containers Total No. Type Quantity	Unit Wt. / Vol.	Quantity Liquid	Quantity Solid	Quantity Sludge	Notes
1 1 77 SAC	71				
2 7 PAS (bs	140				
3	1.3				
4					
5					
6					
as defined by RCRA. I hereby declare the	hat the content	s of this	consignment	are fully and	subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are ansport by highway according to applicable federal, state, and
Type / Print Name			Signature		Month / Day / Year
Transporter 1 Acknowledgement Rece	ipt of Materia	als)	
Type / Print Name:			Signature:)	Month Day / Year
Transporter 2 Acknowledgement of Rece	ipl of Materia	als		1	t t
Type / Print Name:			Signature:	_	Month / Day / Year
Discrepancy Indication Space		,		1	
Facility Owner or Operator: Certification	n of receipt of	materia	s covered bo	Was manife	stexcept as noted in Discrepancy above.
Type Print Name:			Signature		Month/Day/Year / /
Jan Joseph			J-13	1/2	2/19/11
•	(DRIGINA	L! RETURN	TO GENE	RATOR

SHIPPING DOCUMENT

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Diesel and Water for Recycling

Glycols for Recycling

Material

Line



nor alalu n		009	920		Glycols for Recycling		
	nt# 🗛	000	020		Kerosene and Water for Recyclin	ng	
Generator / Shipper:					Mineral Oil for Recycling		
rec					Oil for Recycling		
US EPA ID#:					Oil, Water for Recycling		
Address:			N. D.C	Wastewaters	4 1 1 0 11 7		
C.L.	In.	Ta.			A/Non DOT Regulated Ma	aterial, Solids	
City:	State:	Zip:		Line	Material		
	l n				Ash, Fly		
Contact:	Phone:			-	Debris, C & D related		
Ct. A					Debris, Petroleum Impact, Speci	ny:	
Site: ONST. SITES					Drums, Empty Filters for Recycling, Petroleum	Immostadi	
Address:					Sludge, Industrial	mpacteu:	
Address:					Sludge, Oil		
City: ()	Store	Zip:			Sludge, Tank Bottom		
Leston	State:	Zip:			Soil, Petroleum Impacted, Specia	fv:	
Transporter No. 1: LTS ON		DATA			Soil, Oil	g.	
US EPA ID #:	Phone:	3.0 (+0		-	Sorbents, Diesel Fuel		
Transporter No. 2:	T HOLE.				Sorbents, Oil		
US EPA ID #:	Phone:				Other	-	
Facility:	Thone.			DOT Res	ulated / Non, RCRA Mater	rials - Liquids	
Atlas Environmental Services, LLC, 10139 G	iles Run Road, L	orton, Virg	inia 22079	Line	Material	nais - Eiquius	
Other:				2	Gasoline Mixture 3, UN1203, PGH ERG #128 for Recycling		
					Gasoline 3, UN1203, PGII ERG		
					Fuel Oil (No. 1,2,4,5,or 6) 3, NA		
Additional Information:					Diesel Fuel 3, 1993 PGIII ERG		
					Fuel, Aviation, Turbine Engine 3		
24.11	N N 1				Kerosene, 3, UN 1223, PGIII, El		
24 Hour Emergency I 703-339-9					Other	NG #126	
	1				Other		
Line Containers Total Quantity	Unit Wt. / Vol.	Quantity Liquid	Quantity Solid	Quantity Sludge	N	lotes	
1 4 BAS 100	lbs						
2							
3							
4							
5							
6							
Generator's Certification: 1 certify the m as defined by RCRA. I hereby declare t classified, packed, marked, and labeled, local regulations.	hat the conten	ts of this	consignment	are fully and	accurately described above by	proper shipping name and are	
	54		Signature	sley	Month / D	ay / Year	
Transporter 1 Acknowledgement of Reco	eipy of Materi	als	/	11			
The state of the s	20		Signature:	11	Month / D	ay / Year	
Transporter 2 Acknowledgement of Rec	eipt of Materi	als	6	0		•	
Type / Print Name:			Signature:		Month / D	ay / Year	
Discrepancy Indication Space				/			
Facility Owner or Operator: Certification	on of receipt o	f material	s covered by	thi manife	st except as noted in Discrepa	ncy above.	
Type / Print Name:		/	Signature:		Month / D	ay/Year	
JAM JORGEN		- (1///				
TAME CACALLE			1	,0-1.	- '\	2117111	

SHIPPING DOCUMENT

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Diesel and Water for Recycling

Glycols for Recycling

Material

Line



1	A	009	216		Glycols for Recyclin	g
Date: 2 2211 Docume	nt# A	003	040		Kerosene and Water	for Recycling
Generator / Shipper:					Mineral Oil for Rec	ycling
KCC					Oil for Recycling	
US EPA ID#:				1	Oil, Water for Recyc	cling
Address:					Wastewaters	
				Non RCI	RA/Non DOT Reg	gulated Material, Solids
City:	State:	Zip:		Line	Material	,
•	Participant				Ash, Fly	
Contact:	Phone:				Debris, C & D relate	ed
					Debris, Petroleum I	mpact, Specify:
Site:					Drums, Empty	
CONST. S175						g, Petroleum Impacted:
Address:					Sludge, Industrial	5, 2 411 012 011 2 11 process
7100/267					Sludge, Oil	
	Stoke	Zip:			Sludge, Tank Botton	n
City: Pecto	State:	Zip:			Soil, Petroleum Imp	
Transporter No. 1: ATUAS ON	1/0//	1			Soil, Oil	acted, Specify:
	112an	····				-1
US EPA ID#:	Phone:				Sorbents, Diesel Fue	21
Transporter No. 2:					Sorbents, Oil	
US EPA ID #:	Phone:			7 OF 7	Other	
Facility:	iles Dun Dood I	orton Vivo	inio 22070			CRA Materials - Liquids
Atlas Environmental Services, LLC, 10139 G	nes Run Road, L	orton, virg	ша 22079	Line	Material	
☐ Other:						UN1203, PG1I ERG #128 for Recycling
					AND CONTRACT OF COLUMN	, PGII ERG #128 for Recycling
					Fuel Oil (No. 1,2,4,5	5,or 6) 3, NA 1993, PGII ERG #128
Additional Information:					Diesel Fuel 3, 1993 l	PGIII ERG #128
					Fuel, Aviation, Turb	ine Engine 3, UN1863, PGII ERG #128
24 Hour Emergency I	Phone Number				Kerosene, 3, UN 122	23, PGIII, ERG #128
703-339-93	770				Other	
Line Containers Total No. Type Quantity	Unit Wt. / Vol.	Quantity Liquid	Quantity Solid	Quantity Sludge		Notes
1 1 2 2	GAC	Diquid	John	orduge		
		-				
10.1	165					
3		-				
4						***
5						
6	L				1	1
as defined by RCRA. I hereby declare t	hat the conten	ts of this	consignment	are fully and	d accurately describe	egulations for disposal of Hazardous Waste and above by proper shipping name and are according to applicable federal, state, and
Type / Print Name:	-		Signature:	11/	^	Month / Day / Year
SIL	7		1	J KASS	OF	2/27/1
Transporter Acknowledgement of Reco	eipt of Materi	als		0		
Type / Print Name:			Signature.	11		Month / Day / Year
JE KUD			-	1		12/22/11
Transporter 2 Acknowledgement of Reco	eipt of Materi	ais	C!t	0		Month / Day / Van
Type / Print Name:	*		Signature:			Month / Day / Year
Discrepancy Indication Space			\bigcap		A	•
Facility Owner or Operator: Certification	n of possint -	f mataul-	ld agyered by	this manie	ost organica natad !	in Disarananay abaya
Type / Print Name:	on or receipt o	materia	Signature:	y they manyl	Si except as noted i	Month / Day / Year
1 1000			Signature:	ノル	V	1 2 22 N
The STARLEY	-	03/04/	ON 1 KCD	IV Page 3	2 of 73	
	(DRIGINA	L:VRETURI	TO GENE	RATOR	

Line

Material

SHIPPING DOCUMENT

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Diesel and Water for Recycling



Date: 5 FEB Document# A 0097	775		Glycols for Recycling
Date: Document# A 009	13		Kerosene and Water for Recycling
Generator / Shipper /			Mineral Oil for Recycling
VC E			Oil for Recycling
US EPA ID#: NOT REGULREIT			Oil, Water for Recycling
Addition 100 100 100 100 100 100 100 100 100 10			Wastewaters
THOO FURRAXUD TR	WY	Non RCR	A/Non DOT Regulated Material, Solids
City: State: 1 Zip:	·	Line	Material
RESION WA	1		Ash, Fly
Contact: Phone:			Debris, C & D related
	1		Debris, Petroleum Impact, Specify:
Site: C A A A A A A A A A A A A A A A A A A			Drums, Empty
SAME AS AROU	Y-	_	Filters for Recycling, Petroleum Impacted:
Address:		- V- 1445	Sludge, Industrial
Autos	1		Sludge, Oil
City: State: Zip:			Sludge, Tank Bottom
City.	1		Soil, Petroleum Impacted, Specify:
Transporter No. 1: ATLAS FNUIRON	WELTH		Soil, Oil
	2997	1	Sorbents, Diesel Fuel
US EPA ID#: NOT REQUIRED Phone: +033	311110	-	
Transporter No. 2:			Sorbents, Oil
US EPA ID #: Phone:		D OTT N	Other
Facility: Atlas Environmental Services, LLC, 10139 Giles Run Road, Lorton, Virgi	nio 22070		ulated / Non, RCRA Materials - Liquids
IM.	ша 22079	Line	Material
Other:	l		Gasoline Mixture 3, UN1203, PG11 ERG #128 for Recycling
			Gasoline 3, UN1203, PGII ERG #128 for Recycling
			Fuel Oil (No. 1,2,4,5,or 6) 3, NA 1993, PGII ERG #128
Additional Information:	1		Diesel Fuel 3, 1993 PGIII ERG #128
77 27			Fuel, Aviation, Turbine Engine 3, UN1863, PGII ERG #128
159			to the second of
24 Hour Emergency Phone Number			Kerosene, 3, UN 1223, PGIII, ERG #128
24 Hour Emergency Phone Number 703-339-9770			Kerosene, 3, UN 1223, PGIII, ERG #128 Other
703-339-9770	Ourstitus	O	
703-339-9770 Line Containers Total Unit Quantity	Quantity Solid	Quantity Sludge	
Line Containers Total Unit Quantity No. Type Quantity Wt. / Vol. Liquid	Quantity Solid	Quantity Sludge	Other
Containers Total Unit Quantity Wt. / Vol. Liquid			Other
Line Containers Total Unit Quantity Wt. / Vol. Liquid			Other
Line Containers Total Unit Quantity Liquid			Other
Line Containers Total Unit Quantity Liquid			Other
Line Containers Total Unit Quantity Liquid			Other
Line Containers Total Unit Quantity Liquid	Solid	Šludge	Notes Notes
Line Containers Total Unit Wt. / Vol. Liquid 1 113385 CA 330 2 3 4 5 6 Generator's Certification: I certify the materials described above	Solid	Sludge	Notes Notes subject to federal regulations for disposal of Hazardous Waste
Line Containers Total Unit Wt. / Vol. Liquid 1 1 3385 CA 330 2 3 4 5 6 Generator's Certification: I certify the materials described above as defined by RCRA. I hereby declare that the contents of this c	Solid on this docum on ignment a	Sludge	Notes Notes subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are
Line Containers Total Unit Wt. / Vol. Liquid 1 1 3 3 5 6 3 4 5 6 Generator's Certification: I certify the materials described above as defined by RCRA. I hereby declare that the contents of this c classified, packed, marked, and labeled, and are in all respects in	Solid on this docum on ignment a	Sludge	Notes Notes subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are
Line Containers Total Unit Wt. / Vol. Liquid 1 1 1 3 3 4 5 6 Generator's Certification: I certify the materials described above as defined by RCRA. I hereby declare that the contents of this c classified, packed, marked, and labeled, and are in all respects in local regulations. Type / Print Name:	Solid on this docum on ignment a	Sludge	Notes Notes subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are
Line Containers Total Unit Wt. / Vol. Liquid 1 1 1 3 3 4 5 6 6 Generator's Certification: I certify the materials described above as defined by RCRA. I hereby declare that the contents of this c classified, packed, marked, and labeled, and are in all respects in local regulations. Type / Print Name:	on this docum	Sludge	Notes Notes subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are insport by highway according to applicable federal, state, and
Line Containers Total Unit Wt. / Vol. Liquid 1 1 1 3 3 4 3 4 3 4 5 6 6 Generator's Certification: I certify the materials described above as defined by RCRA. I hereby declare that the contents of this c classified, packed, marked, and labeled, and are in all respects in local regulations. Type / Print Name: Transporter 1 Acknowledgement of Receipt of Materials	on this docum on this docum on ignment a normer dono	Sludge	Subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are insport by highway according to applicable federal, state, and
Line Containers Total Unit Wt. / Vol. Liquid 1 1 1 3 3 4 3 4 3 4 5 6 6 Generator's Certification: I certify the materials described above as defined by RCRA. I hereby declare that the contents of this c classified, packed, marked, and labeled, and are in all respects in local regulations. Type / Print Name: Transporter 1 Acknowledgement of Receipt of Materials	on this docum	Sludge	Notes Notes subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are insport by highway according to applicable federal, state, and
Line Containers Total Unit Wt. / Vol. Liquid 1 1 1 3 3 4 3 4 4 5 6 6 Generator's Certification: I certify the materials described above as defined by RCRA. I hereby declare that the contents of this c classified, packed, marked, and labeled, and are in all respects in local regulations. Type / Print Name: Transporter 1 Acknowledgement of Receipt of Materials Type / Print Name:	on this docum on this docum on ignment a normer dono	Sludge	Subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are insport by highway according to applicable federal, state, and
Line Containers Total Unit Quantity Line No. Type Quantity Wt. / Vol. Liquid 1 1 3 3 4 3 4 5 5 6 6 6 Cenerator's Certification: I certify the materials described above as defined by RCRA. I hereby declare that the contents of this c classified, packed, marked, and labeled, and are in all respects in local regulations. Type / Print Name: Transporter 1 Acknowledgement of Receipt of Materials Type / Print Name: Transporter 2 Acknowledgement of Receipt of Materials	Solid on this docum on ignment a norther done Signature:	Sludge	Subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are insport by highway according to applicable federal, state, and Month/Day/Year Month/Day/Year Month/Day/Year
Line Containers Total Unit Quantity Line No. Type Quantity Wt. / Vol. Liquid 1 1 3 3 4 3 4 5 5 6 6 6 Cenerator's Certification: I certify the materials described above as defined by RCRA. I hereby declare that the contents of this c classified, packed, marked, and labeled, and are in all respects in local regulations. Type / Print Name: Transporter 1 Acknowledgement of Receipt of Materials Type / Print Name: Transporter 2 Acknowledgement of Receipt of Materials	on this docum on this docum on ignment a normer dono	Sludge	Subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are insport by highway according to applicable federal, state, and
Line Containers Total Unit Quantity I I I Guantity Wt. / Vol. Liquid I I I Guantity Wt. / Vol. Liquid Containers Total Unit Wt. / Vol. Liquid I I I Guantity Wt. / Vol. Liquid Containers Total Unit Quantity Liquid Containers Total Unit Quantity Liquid Containers Total Unit Quantity Liquid Containers Total Unit Containers Containers Total Unit Quantity Liquid Containers Total Unit Quantity Containers Total Unit Wt. / Vol. Liquid Containers Total Unit Vt. / Vol. Liquid Container	Solid on this docum on ignment a norther done Signature:	Sludge	Subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are insport by highway according to applicable federal, state, and Month/Day/Year Month/Day/Year Month/Day/Year
Line Containers Total Unit Quantity Line No. Type Quantity Wt. / Vol. Liquid 1 1 3 3 4 3 4 5 5 6 6 6 Cenerator's Certification: I certify the materials described above as defined by RCRA. I hereby declare that the contents of this c classified, packed, marked, and labeled, and are in all respects in local regulations. Type / Print Name: Transporter 1 Acknowledgement of Receipt of Materials Type / Print Name: Transporter 2 Acknowledgement of Receipt of Materials	Solid on this docum on ignment a norther dono Signature:	Sludge	Subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are insport by highway according to applicable federal, state, and Month/Day/Year Month/Day/Year Month/Day/Year
Line Containers Total Unit Wt. / Vol. Liquid 1 1 1 3 3 4 5 6 Generator's Certification: I certify the materials described above as defined by RCRA. I hereby declare that the contents of this c classified, packed, marked, and labeled, and are in all respects in local regulations. Type / Print Name: Transporter 1 Acknowledgement of Receipt of Materials Type / Print Name: Discrepancy Indication Space	on this document and proper done. Signature: Signature:	nent are not tre fully and dition for tra	Subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are insport by highway according to applicable federal, state, and Month/Day/Year Month/Day/Year Month/Day/Year
Line Containers Total Unit Wt. / Vol. Liquid 1	on this document and order done. Signature: Signature:	nent are not tre fully and dition for tra	Subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are insport by highway according to applicable federal, state, and Month/Day/Year Month/Day/Year Month/Day/Year Month/Day/Year
Line Containers Total Unit Wt. / Vol. Liquid 1 1 1 3 3 4 5 6 Generator's Certification: I certify the materials described above as defined by RCRA. I hereby declare that the contents of this c classified, packed, marked, and labeled, and are in all respects in local regulations. Type / Print Name: Transporter 1 Acknowledgement of Receipt of Materials Type / Print Name: Discrepancy Indication Space Kacility Owner or Operator: Certification of receipt of materials Type / Print Name:	on this document and proper done. Signature: Signature:	nent are not tre fully and dition for tra	Subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are insport by highway according to applicable federal, state, and Month/Day/Year Month/Day/Year Month/Day/Year
Line Containers Total Unit Wt. / Vol. Liquid 1 1 1 3 3 4 3 4 5 6 6 Generator's Certification: I certify the materials described above as defined by RCRA. I hereby declare that the contents of this c classified, packed, marked, and labeled, and are in all respects in local regulations. Type / Print Name: Transporter 1 Acknowledgement of Receipt of Materials Type / Print Name: Discrepancy Indication Space Kacility Owner or Operator: Certification of receipt of materials Type / Print Name:	on this document and order done. Signature: Signature:	nent are not tre fully and dition for tra	Subject to federal regulations for disposal of Hazardous Waste accurately described above by proper shipping name and are insport by highway according to applicable federal, state, and Month/Day/Year Month/Day/Year Month/Day/Year Month/Day/Year

SHIPPING DOCUMENT

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Diesel and Water for Recycling

Material



- Document# A

Generator								Mineral Oil for Recycling		
	XCR							Oil for Recycling		
US EPA ID#: LOT REGULARD								Oil, Water for Recycling		
Address:								Wastewaters		
							Non RCI	RA/Non DOT Regulated Material, Solids		
City:				State:	Zip:		Line	Material		
						1		Ash, Fly		
Contact:				Phone:				Debris, C & D related		
]		Debris, Petroleum Impact, Specify:		
Sito							Drums, Empty			
Site:				SLO	i		Filters for Recycling, Petroleum Impacted:			
mai	EZ JIM	41.47	Sylve	x 100 -	140			Sludge, Industrial		
Site: Worker Main Construction Site Address: Frankfox Cuty PLmy + Elonen St. City: State: Zip:					\	154.				
Live	mino	eca	MY TLWY	A 611	gren	201	-	Sludge, Oil		
City:	, ,		, ,	State:	Zip:	1		Sludge, Tank Bottom		
ICE	PENCON			V				Soil, Petroleum Impacted, Specify:		
Transporte	r No. 1:	AH	100 EN	some,	And			Soil, Oil		
US EPA II)#: No	VICO	4	Phone: Z	3-33	1-9720		Sorbents, Diesel Fuel		
Transporte	r No. 2:	1	100	,				Sorbents, Oil		
US EPA ID	#:		***, 200to	Phone:	Military acti			Other		
Facility:							DOT Res	DOT Regulated / Non, RCRA Materials - Liquids		
Atlas En	vironmenta	Services	s, LLC, 10139 Gil	les Run Road, L	orton, Virg	inia 22079	Line	Material		
Other:						- 1		Gasoline Mixture 3, UNI203, PGII ERG #128 for Recycling		
						ł		Gasoline 3, UN1203, PGH ERG #128 for Recycling		
						1		Fuel Oil (No. 1,2,4,5,or 6) 3, NA1993, PGII ERG #128		
Additional	Informatio	n:	,					Diesel Fuel 3, 1993 PGIII ERG #128		
			W21)		Fuel, Aviation, Turbine Engine 3, UN1863, PGII ERG #128		
		24.11	, , , ,]				
24 Hour Emergency Phone Number 703-339-9770					1		Kerosene, 3, UN 1223, PGIII, ERG #128			
			703-337-77	70				Other		
Line	Contair	ners	Total	Unit	Quantity	Quantity	Quantity	Notes		
Line	No.	Type	Quantity	Wt. / Vol.	Liquid	Solid	Sludge	140163		
1	She	R	2150	GALLOW	2150					
2										
3										
4										
5				-						
6										
Generator's Certification: I certify the materials described above on this document are not subject to federal regulations for disposal of Hazardous Waste as defined by RCRA. I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper containing for transport by highway according to applicable federal, state, and local regulations.										
Type / Prin	t Name:	\ _	. 4			Signatur:	W.	Month / Day / Year		
Jose Water										
		owledg	ement of Rece	ipt of Materia	als	1	191			
Type / Print Name: Signature: Signature:						1	Month / Day / Year 2~2			
		owledg	ement of Rece	ipt of Materia	als					
Type / Print Name: Signatu						Signature:	Month / Day / Year			
Discrepancy Indication Space										
Facility Owner or Operator: Certification of receipt of materials covered by flys manifest except as noted in Discrepancy above.										
Type Print Name: Signature: Month / Day / Man 1										
Jam Doscue - 00/04/24 More Part 25/1										
ORIGINAL: RETURN TO GENERATOR										

Line

009805

Material

SHIPPING DOCUMENT

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Diesel and Water for Recycling

Kerosene and Water for Recycling

Glycols for Recycling



10139 Giles Run Road, Lorton, VA 22079 Phone: 703-339-9770 Fax: 703-339-9771

722 P				A	nno	1993		Glycols for Recyclin		
Date:			Docume	nt# 🔼	000	1000		Kerosene and Water	r for Recycling	
Generator	/Shipper:	VA	. ^					Mineral Oil for Rec	ycling	
		KC	K					Oil for Recycling		
US EPA ID)#: /	JOT	REQUIRE	ξ O			l	Oil, Water for Recy	cling	
Address:	01							Wastewaters		
- A 16 /	KX 7/0	00	OND TRA	ゲレ			Non RCI	RA/Non DOT Reg	gulated Material, Solids	
City:				State:	Zip:		Line	Material		
•							/1	Ash, Fly		
Contact:				Phone:				Debris, C & D related		
								Debris, Petroleum Impact, Specify:		
Site:								Drums, Empty		
								Filters for Recycling	g, Petroleum Impacted:	
Address:								Sludge, Industrial		
								Sludge, Oil		
City:				State:	Zip:			Sludge, Tank Botton	m	
								Soil, Petroleum Imp	pacted, Specify:	
Transporte	er No. 1:	Attas	Enwhor ?	nerital Ros	vices			Soil, Oil		
US EPA ID	#: NC	T RE	QUIRED	Phone: 70	3 339	9771	L.	Sorbents, Diesel Fu	el	
Transporte		160 10 10			1991			Sorbents, Oil		
US EPA ID	#:			Phone:				Other		
Facility:							DOT Res	gulated / Non, RC	CRA Materials - Liquids	
Atlas En	ivironmenta	al Service	s, LLC, 10139 G	iles Run Road, L	orton, Virg	ginia 22079	Line	Material	197	
Other:								Gasoline Mixture 3	, UN1203, PGH ERG #128 for Recycling	
								Gasoline 3, UN1203	3, PGII ERG #128 for Recycling	
								Fuel Oil (No. 1,2,4,5	5,or 6) 3, NA1993, PGΠ ERG #128	
Additional	Informatio	on:						Diesel Fuel 3, 1993	PGIJI ERG #128	
								Fuel, Aviation, Turb	oine Engine 3, UN1863, PGII ERG #128	
		24 Ho	ur Emergency	Phone Number				Kerosene, 3, UN 122	23, PGIII, ERG #128	
			703-339-9	770				Other		
	Contai	ners	Total	Unit	Quantity	Quantity	Quantity			
Line	No.	Туре	Quantity	Wt. / Vol.	Liquid	Solid	Sludge		Notes	
1	1	TI	1000	GALLONS	1000			***	(E.S.) (M.) (E.S.)	
2		1,	7912	CI-DIGIS.	7000				•	
3										
4										
5									<u> </u>	
6										
as defin classifie	ned by RC ed, packed gulations.	RA. I he , marke	ereby declare d, and labeled	that the content	ts of this	consignment	are fully and	d accurately describe	egulations for disposal of Hazardous Waste ed above by proper shipping name and are according to applicable federal, state, and Month / Day / Year //	
Transac	tor 1 A ala	4 Pt		eipt of Materia	ale	1			1 4 - 45 //	
Type / Prin		TOWIEUE	cinem of Kec	orpror materia	200	Signature: \	108411	<i>d1</i>	Month / Day / Year	
Туретти	reme.	KWE	1/ JAKO	N		oignature.	ara Do	wéll	FEB 25 2011	
Transpor	ter 2 Acki	nowledg	gement of Rec	eipt of Materia	als	1				
Type / Prin	nt Name:					Signature:	Signature: Month / Day / Year			
Discrepand	cy Indicatio	on Space				\bigcirc		0		
Facility C	Wher or	Operato	r: Certification	on of receipt o	f materio	s covered A	/ this manife	est except as noted i	in Discrepancy above.	
Type / Phir		(all	n. Commean	\	I Indicing	Signature:	XI	- Chech as noted	Month / Day / Voor	
	Am	5	0844-	ノ	02/04/	15	1/100	5 of 72	frs/201	
1					DRIGINA	L: RETUR	N TO GENE	RATOR	v	

SHIPPING DOCUMENT

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Diesel and Water for Recycling

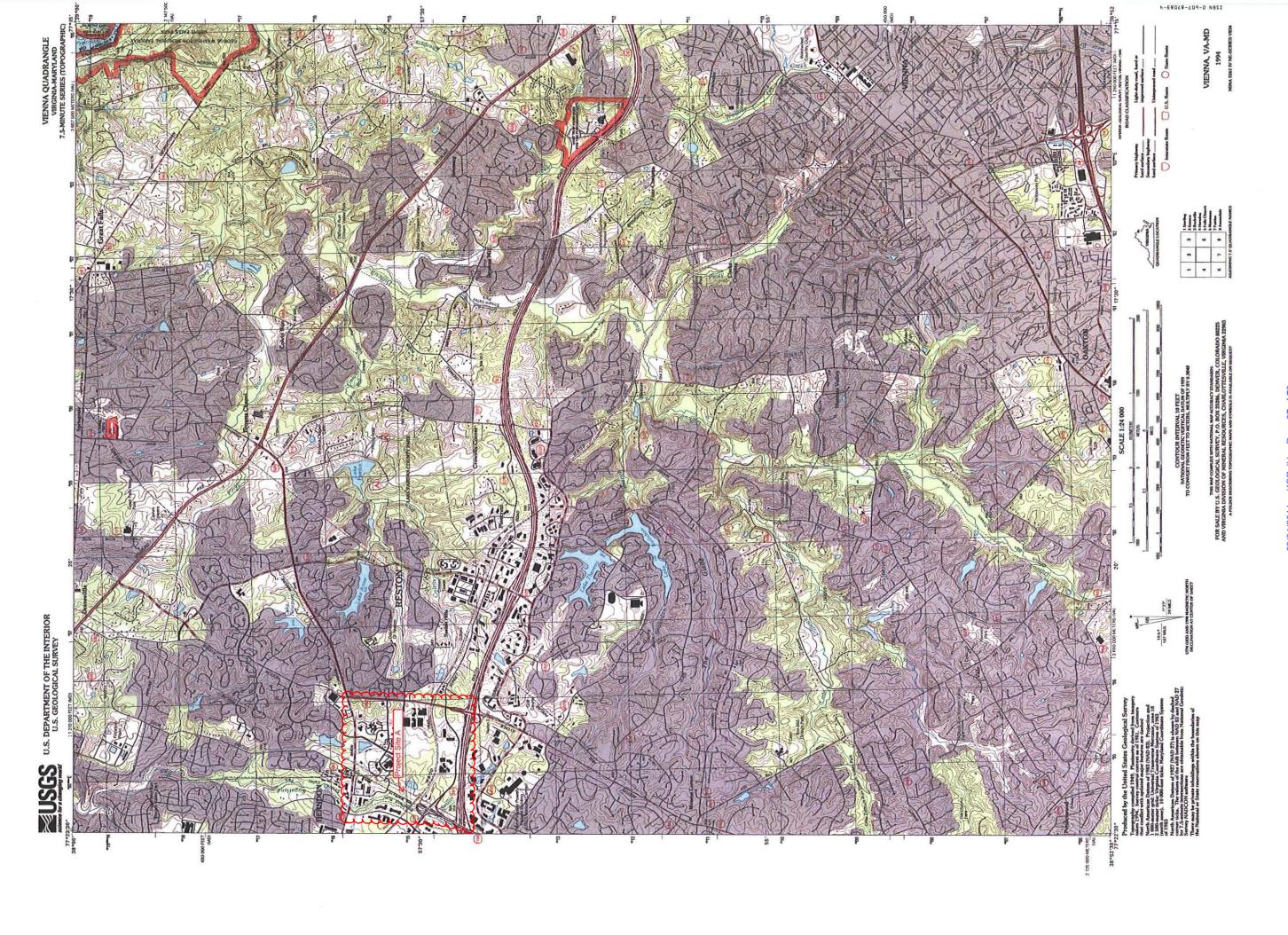
Glycols for Recycling

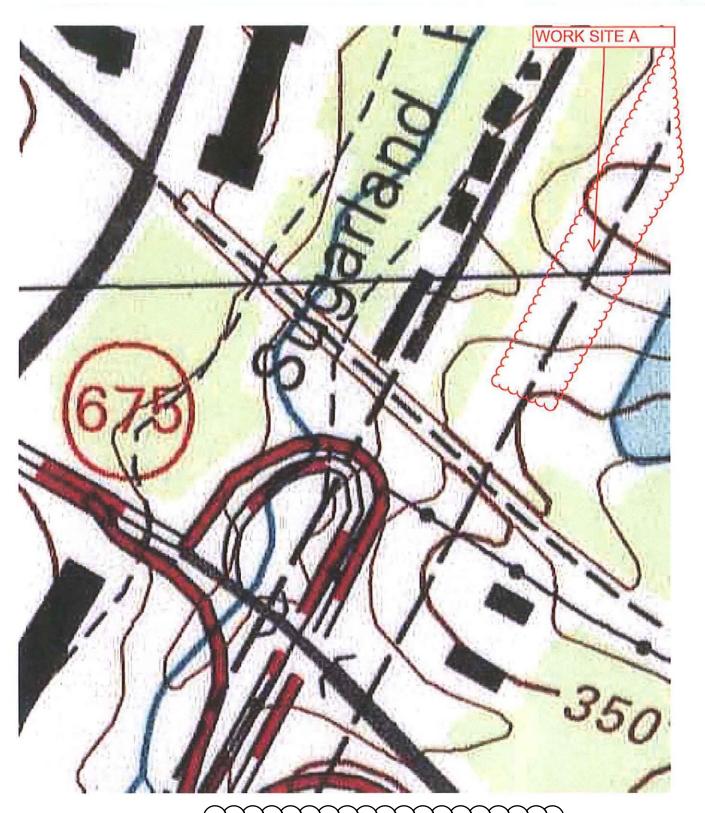
Material

Line

009993

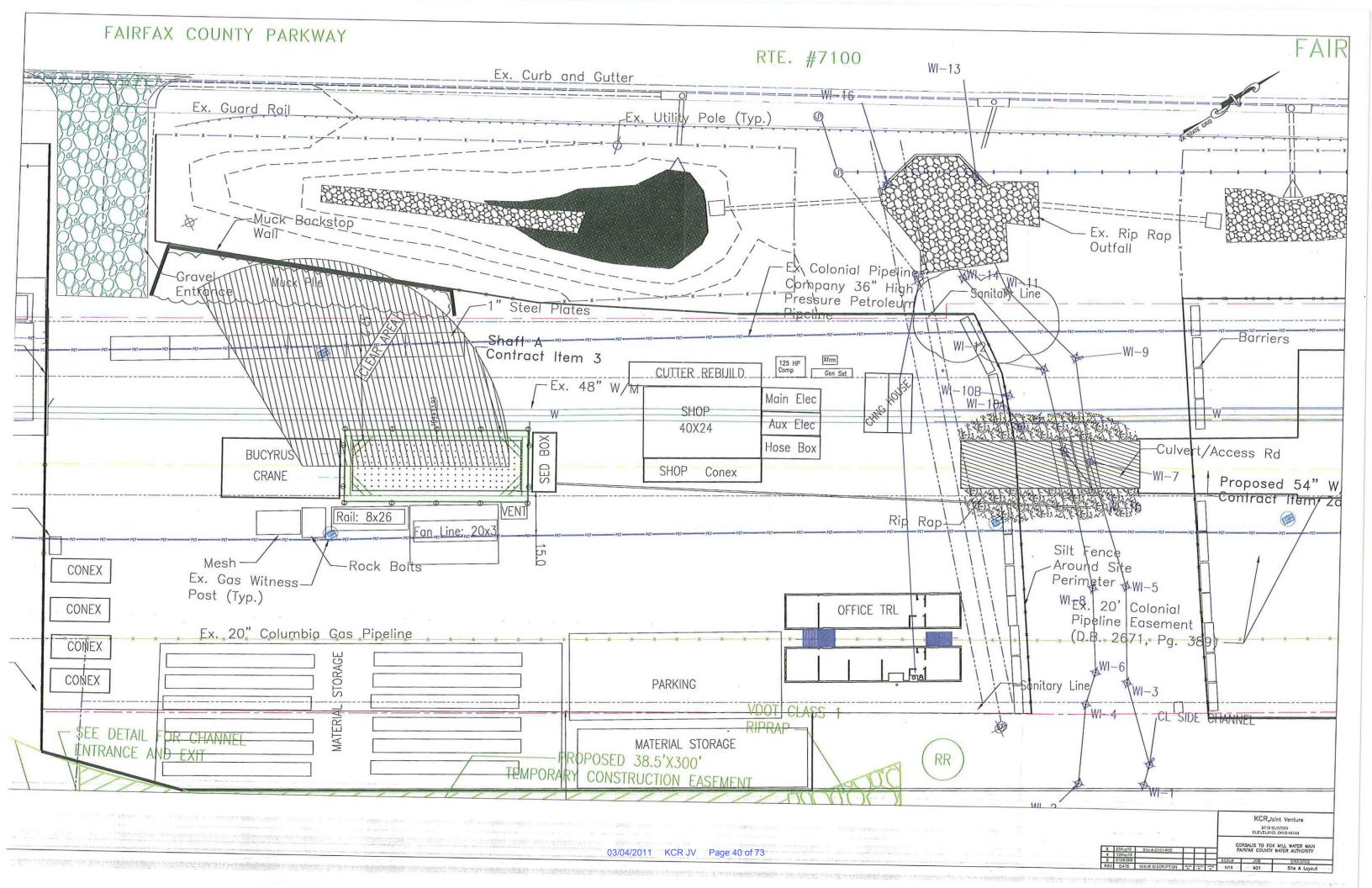
USGS Maps





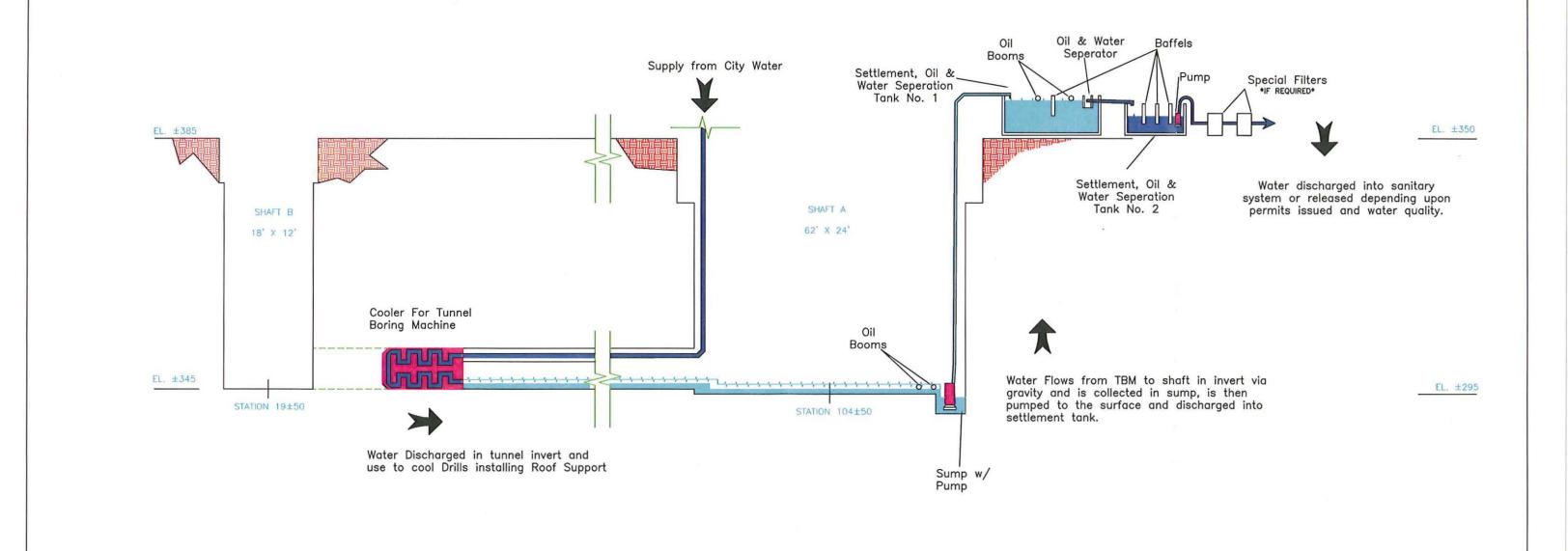
SOUTH EAST CORNER OF FAIRFAX
COUNTY PARKWAYAND NEW DOMINION
PARKWAY IN RESTON VIRGINIA 20190

Site Diagram



Treatment System Diagram

Proposed Onsite Water/Oil Remediation Plan



Site Material Safety Data Sheets (MSDS)

1



SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.

D-A Lubricant

1340 W. 29th St. Indianapolis, IN 46208 317/923-5321 CHEMICAL EMERGENCY HOTLINE 800 899-9004

PRODUCT NAME:

ROCK DRILL, ALL GRADES

PRODUCT DESCRIPTION: ROCK DRILL, ALL GRADES

CHEMICAL FAMILY:

PETROLEUM OIL, MACHINE OIL

EFFECTIVE DATE:

02/19/08

SUPERCEDES DATE:

03/02/05

Dear Customer:

In compliance with the Superfund Amendments and Reauthorization Act (SARA Title III, Section 313), Federal Hazard Communications Regulations (WHMIS and OSHA 29 CFR 1910.1200) and in the interest of informed use of our product, we are providing you with this Material Safety Data Sheet (MSDS).

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We THANK YOU for your continued patronage and look forward to providing you with additional quality products and services.

SECTION 2 - HAZARDOUS INGREDIENTS								
% WT	PEL	TLV	STEL	UNITS	LC50, PPM	LD50,MG/F	₹G	
60-99	5	5	10	MG/M3		RATI 13000	RABA 2000	
60-99	5	5	10	MG/M3		RATI 13000	RABA 2000	
60-99	5	5	10	MG/M3		RATI 13000	RABA 2000	
60-99								
60-99	5	5		MG/M3		RATI 13000	RABA 2000	
	% WT 60-99 60-99 60-99	% WT PEL 60-99 5 60-99 5 60-99 5 60-99	% WT PEL TLV 60-99 5 5 60-99 5 5 60-99 5 5 60-99 5 5 60-99 5 5	% WT PEL TLV STEL 60-99 5 5 10 60-99 5 5 10 60-99 5 5 10 60-99 5 5 10 60-99 5 5 10	% WT PEL TLV STEL UNITS 60-99 5 5 10 MG/M3 60-99 5 5 10 MG/M3 60-99 5 5 10 MG/M3 60-99 60-99 5 5 10 MG/M3	% WT PEL TLV STEL UNITS LC50, PPM 60-99 5 5 10 MG/M3 60-99 5 5 10 MG/M3 60-99 5 5 10 MG/M3 60-99 60-99 5 5 10 MG/M3	% WT PEL TLV STEL UNITS LC50, PPM LD50, MG/F 60-99 5 5 10 MG/M3 RATI 13000 60-99 5 5 10 MG/M3 RATI 13000 60-99 5 5 10 MG/M3 RATI 13000 60-99 60-99 5 5 10 MG/M3 RATI 13000	

SECTION 3 - PHYSICAL DATA

Boiling Pt Deg F/C: >500/>260

Specific Gravity: 0.86 to 0.90

Vapor Pressure (MM HG): NIL Vapor Density (Air=1): N/A

% Volatile Volume: NIL Evaporation Rate: <0.1

Solubility in Water: NEGLIGIBLE

Water/Oil Dist Coeff: 0

Appearance and Odor: Amber Liquid with Mild Petroleum Odor

Physical State: Liquid

PH: N/A

Freeze Pt Deg F/C: N/A

Threshold Odor, PPM: N/A

Other: N/A

VOC: Lbs/Gal = N/A

Grams/Liter = N/A

Grams Vol/Gram Solid = N/A

% VOC: N/A

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Classification: Combustible at high temp

NFPA Rating: 1.1.0

Combustion products: CO, CO2, Smoke, Sulfur, Nitrogen and Phosphorous compounds.

Flash Point Deg F/C: >370/>188

LEL %: N/A % UEL %: N/A %

Extinguishing Media: Water Fog, Foam, Dry Chemical, CO2, Sand, or Earth.

UN/NA/PIN#: N/A

Special Fire Fighting Procedures

Firefighters should wear self-contained breathing equipment. Treat as a Class B fire. Use water to cool threatened containers. 03/04/2011 KCR JV Page 44 of 73

Auto Ign. Temp Deg F/C: >500/>260

Page

PRODUCT NAME:

ROCK DRILL, ALL GRADES

EFFECTIVE DATE:

02/19/08

SUPERCEDES DATE: 03/02/05

Unusual fire and explosion hazards: N/A

Explosion Power: N/A

Impact Sensitive: No Static Sensitive: No

Burning Rate: Low

SECTION 5 - HEALTH HAZARD DATA

Product guide: TLV see Section 2

STEL: see Section 2

Routes of Entry: Skin contact, Eye, Inhalation, Ingestion

Effects of Overexposure:

Acute; may cause respiratory system, skin, and/or eye irritation.

Ingestion may cause nausea, cramps, diarrhea, and other gastrointestinal

disorders.

Chronic; excess mist may cause respiratory problems.

Excess skin contact may cause dryness and/or sensitization.

Any suspected carcinogen = or > 0.1%?: NO

Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Emergency and First Aid Procedures

Eye: Immediately flush with water for 15 minutes and call a physician.

Inhalation: If affected, remove to fresh air, administer oxygen and call a physician.

Skin: Wash thoroughly with plenty of water and soap.

Ingestion: Seek a physician immediately; show MSDS or Label; DO NOT induce vomiting.

Wash soiled clothing before wearing again.

SECTION 6 - REACTIVITY DATA

Stable: YES

Conditions to Avoid: N/A

Incompatibility (Materials to avoid): YES, strong oxidizing agents

Hazardous Decomposition Products: YES, combustion products, see Section 4

Hazardous Polymerization: NO

Conditions to Avoid: N/A

SECTION 7 - SPILL OR LEAK PROCEDURES

Listed in SARA Title III, #302: NO

#304, Cercla: NO

#313: NO

Steps to be taken in case material is released or spilled:

Eliminate source if safe to do so. Prevent from entering waterways and drains. Wear suitable personal protective equipment. Dike and absorb with inert material and transfer to a sealed approved container for disposal. Any spill of this material that can enter navigable waters must be reported immediately to the National Response Center (800-424-8802)

Report Quantity, Lb: N/A

Kg: N/A

TPQ, Lb: N/A

Regulations:

Other: N/A

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Hazard Waste: NO

NO.:

Disposal Method: In accordance with Federal, State, and Local Regulations.

*** SARA Waste Characteristic: N/A

*** EPA Hazardous Waste Number: N/A

SECTION 8 - SAFE HANDLING AND PROTECTION INFORMATION

Respiratory Protection: Use only in well ventilated areas.

Ventilation - Local: Recommended

Special: Avoid Heat/Flame

Mechanical: Required

Other: N/A

Protective Gloves: Oil/Solvent resistant Eye Protection: Safety Glasses/Goggles Other Protective Equipment:

Oil/Solvent resistant clothing and footwear. If ventilation is inadequate,

wear approved respiratory equipment.

Estimated LD50, Mg/Kg: YES Dermal, Rabbit 2000, Oral Rat 13000

Estimated LC50, PPM: NO

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3

PRODUCT NAME:

ROCK DRILL, ALL GRADES

EFFECTIVE DATE:

02/19/08

SUPERCEDES DATE:

03/02/05

Sensitization: NO

Irritant: NO

Synergistic Agents: NO

SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

Use only in well ventilated areas. Avoid prolonged or repeated breathing of fumes, vapor, or mist. Avoid contact with eyes and skin. DO NOT take internally. Wash thoroughly after using. In case of accident or illness, consult a physician immediately; show label and/or MSDS.

Keep out of reach of children.

Always read and follow directions on product label.

Other precautions:

More technical information (MSDS) available upon request. For professional industrial use only. Good personal hygiene is important. Empty containers retain residue which can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources; they may explode and cause injury or death.

The information and recommendations provided herein are believed to be accurate as of the date hereof. However, such information and recommendations are provided without warranty of any kind and D-A Lubricant disclaims any and all liability or legal responsibility for use or reliance upon same.



SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.

D-A Lubricant

1340 W. 29th St. Indianapolis, IN 46208 317/923-5321 CHEMICAL EMERGENCY HOTLINE 800 899-9004

PRODUCT NAME:

MAGNAPLEX 1,1 1/2,2

PRODUCT DESCRIPTION: MAGNAPLEX 1,1 1/2,2

LUBRICATING GREASE

CHEMICAL FAMILY: EFFECTIVE DATE:

01/27/09

SUPERCEDES DATE: 01/22/09

Dear Customer:

In compliance with the Superfund Amendments and Reauthorization Act (SARA Title III, Section 313), Federal Hazard Communications Regulations (WHMIS and OSHA 29 CFR 1910.1200) and in the interest of informed use of our product, we are providing you with this Material Safety Data Sheet (MSDS).

This MSDS will be updated regularly to reflect the most recent information in our possession. Please ensure that obsolete MSDS sheets in your files for this part number are discarded.

We THANK YOU for your continued patronage and look forward to providing you with additional quality products and services.

		SE	CTION 2	- H	AZARDO	ous in	GREDIENT	S		
COMPONENT	CAS #	% WT	PEL	TLV	STEL	UNITS	LC50, PPM	LD50,MG/H	KG .	
PETROLEUM	OILS									-
	64742-65-0	60-65	5	5	10	MG/M3		RATI 13000	RABA 2000	
	64741-95-3	20-25	5	5	10	MG/M3		RATI 5000	RABA 2000	
MOLYBDENU	M DISULFIDE									
	01317-33-5	1-5	15	10		MG/M3		RATI 6500		
ZINC DIOR	GANO-DITHIOE	PHOSPHATE								
	68649-42-3	0.5-1.5						RATI >5000	RABA >2000	SARA Rep
PETROLEUM	OILS									
	64742-52-5	60-65	5	5	10	MG/M3		RATI 5000	RABA 2000	
LITHUIM H	YDROXIDE									
	1310-66-3	1-5								
ANTIMONY	DIALKYL-DITH	IIOCARBAMA	ATE							
	15890-25-2	0-0.5	0.5	0.5		MG/M3	100	RATI 16400	RABA 16000	SARA Rep
CALCIUM C	ARBONATE (SA	ALT)								
	471-34-1	5-7	5	10		MG/M3		RATI 6450		

SECTION 3 - PHYSICAL DATA

Boiling Pt Deg F/C: >500/>260

Specific Gravity: 0.86 TO .92

Vapor Pressure (MM HG): NIL Vapor Density (Air=1): N/A

% Volatile Volume: NIL Evaporation Rate: <0.1

Solubility in Water: NEGLIGIBLE

Water/Oil Dist Coeff: 0

Appearance and Odor: Gray grease with petroleum odor Physical State: SEMI SOLID PH: N/A

Freeze Pt Deg F/C: N/A

Threshold Odor, PPM: N/A

Other: N/A

VOC: Lbs/Gal = N/A

Grams/Liter = N/A

Grams VOC/Gram Solid = N/A

% VOC: N/A

Page

2

MAGNAPLEX 1,1 1/2,2

PRODUCT NAME: EFFECTIVE DATE:

01 (07 (00

FFECTIVE DATE: 01/27/09

SUPERCEDES DATE:

01/22/09

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Classification: Combustible at high temp

NFPA Rating: 1.1.0

HMIS RATING: 1.1.0

Combustion products: CO, CO2, Smoke, Sulfur, Nitrogen, Phosphorous, Zinc, Antimony, and

Molybdenum Compounds.

Flash Point Deg F/C: >450/232

LEL %: N/A % UEL %: N/A %

Extinguishing Media: Water Fog, Foam, Dry Chemical, CO2, Sand, or Earth.

UN/NA/PIN#: N/A

Special Fire Fighting Procedures

Firefighters should wear self-contained breathing equipment. Treat as a Class B fire. Use

water to cool threatened containers.

Auto Ign. Temp Deg F/C: >500/>260

Unusual fire and explosion hazards: N/A

Explosion Power: N/A Burning Rate: Low

Impact Sensitive: No Static Sensitive: No

SECTION 5 - HEALTH HAZARD DATA

Product Guide: TLV see Section 2

STEL: see Section 2

Routes of Entry: Skin contact, Eye, Inhalation, Ingestion

Effects of Overexposure:

Acute; may cause respiratory system, skin, and/or eye irritation.

Ingestion may cause nausea, cramps, diarrhea, and other gastrointestinal disorders.

Chronic; excess mist may cause respiratory problems.

Excess skin contact may cause dryness and/or sensitization.

Excess inhalation and/or ingestion may be harmful to respiration system and heart.

Any suspected carcinogen = or > 0.1%?: NO

Emergency and First Aid Procedures

Eye: Immediately flush with plenty of water for 15 minutes and call a physician.

Inhalation: If affected, remove to fresh air, administer oxygen and call a physician.

Skin: Wash thoroughly with plenty of water and soap.

Ingestion: Seek a physician immediately, show MSDS or Label; Do Not Induce vomiting.

Wash soiled clothing before wearing again.

SECTION 6 - REACTIVITY DATA

Stable: YES

Conditions to Avoid: N/A

Incompatibility (Materials to avoid): YES, strong oxidizing agents

Hazardous Decomposition Products: YES, combustion products, see Section 4

Hazardous Polymerization: NO Conditions to Avoid: N/A

SECTION 7 - SPILL OR LEAK PROCEDURES

Listed in SARA Title III, #302: NO

#304, Cercla: NO

#313: YES

Steps to be taken in case material is released or spilled:

Eliminate source if safe to do so. Prevent from entering waterways and drains. Wear suitable personal protective equipment. Dike and absorb with

inert material and transfer to a sealed approved container for disposal.

Report Quantity, Lb: N/A

Kg: N/A TPQ, Lb: N/A

Regulations: SARA

Other: N/A

Hazard Waste: NO

NO.:

Disposal Method: In accordance with Federal, State, and Local Regulations.

*** SARA Waste Characteristic: N/A

*** EPA Hazardous Waste Number: N/A

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3

PRODUCT NAME:

MAGNAPLEX 1,1 1/2,2

EFFECTIVE DATE:

01/27/09

SUPERCEDES DATE: 01/22/09

SECTION 8 - SAFE HANDLING AND PROTECTION INFORMATION

Respiratory Protection: Use only in well ventilated areas.

Ventilation - Local: Recommended

Special: Avoid Heat/Flame

Mechanical: Required

Other: N/A

Protective Gloves: Oil/Solvent resistant Eye Protection: Safety Glasses/Goggles Other Protective Equipment:

other Protective Equipment:

Oil/Solvent resistant clothing and footwear. If ventilation is inadequate,

wear approved respiratory equipment.

Estimated LD50, Mg/Kg: YES Dermal, Rabbit >2000 Oral Rat >5000

Estimated LC50, PPM: NO

Sensitization: NO

Irritant: NO

Synergistic Agents: NO

SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

Use only in well ventilated areas. Avoid prolonged or repeated breathing of fumes, vapor, or mist. Avoid contact with eyes and skin. DO NOT take internally. Wash thoroughly after using. In case of accident or illness, consult a physician immediately; show label and/or MSDS.

Keep out of reach of children.

Always read and follow directions on product label.

Other precautions:

More technical information (MSDS) available upon request. For professional industrial use only. Good personal hygiene is important. Empty containers retain residue which can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources; they may explode and cause injury or death.

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.

D-A Lubricant

1340 W. 29th St. Indianapolis, IN 46208 317/923-5321 CHEMICAL EMERGENCY HOTLINE 800 899-9004

PRODUCT NAME:

WEARGUARD II

PRODUCT DESCRIPTION: WEAR GUARD

CHEMICAL FAMILY: PETROLEUM OIL, HYDRAULIC FLUID

EFFECTIVE DATE:

03/03/08

SUPERCEDES DATE: 02/19/08

Dear Customer:

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PETROLEUM C	OILS								A PARTICIPATION OF THE PARTICI
68	8649-42-3	.1-1					RATI >5000	RABA >2000	SARA Rep
ZINC DIORGA	NO-DITHIOPH	IOSPHATE							
		60-99							
64	1742-01-4	60-99	5	5	10	MG/M3	RATI 13000	RABA 2000	
64	1742-58-1	60-99	5	5	10	MG/M3	RATI 13000	RABA 2000	
64	1741-88-4	60-99	5	5	10	MG/M3	RATI 13000	RABA 2000	
64	1742-65-0	60-99	5	5	10	MG/M3	RATI 13000	RABA 2000	
PETROLEUM C	DILS								
COMPONENT	CAS #	% WT	PEL	TLV	STEL	UNITS LC50, PPM	LD50,MG/K	:G	_

SECTION 3 - PHYSICAL DATA

Boiling Pt Deg F/C: >500/>260

Specific Gravity: 0.86 to 0.90

Vapor Pressure (MM HG): NIL

% Volatile Volume: NIL Evaporation Rate: <0.1

Vapor Density (Air=1): N/A Solubility in Water: NEGLIGIBLE

Water/Oil Dist Coeff: 0

Appearance and Odor: Amber Liquid with Mild Petroleum Odor

Physical State: Liquid

PH: N/A

Freeze Pt Deg F/C: N/A

Grams/Liter = N/A

Threshold Odor, PPM: N/A

VOC: Lbs/Gal = N/A

Grams Vol/Gram Solid = N/A

% VOC: N/A

Other: N/A

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Classification: Combustible at high temp

NFPA Rating: 1.1.0

Combustion products: CO, CO2, Smoke, Sulfur, Nitrogen, Calcium, Phosphorous, and Zinc

compounds.

Flash Point Deg F/C: >370/>188

LEL %: N/A % UEL %: N/A %

Extinguishing Media: Water Fog, Foam, DYV/OHEmikGRJV CO299 50 not 3 or Earth.

UN/NA/PIN#: N/A

Page

2

PRODUCT NAME:

WEARGUARD II

EFFECTIVE DATE:

03/03/08

SUPERCEDES DATE:

02/19/08

Special Fire Fighting Procedures

Firefighters should wear self-contained breathing equipment. Treat as a Class B fire. Use

water to cool threatened containers.

Auto Ign. Temp Deg F/C: >500/>260

Unusual fire and explosion hazards: N/A

Explosion Power: N/A Burning Rate: Low

Impact Sensitive: No

Static Sensitive: No

SECTION 5 - HEALTH HAZARD DATA

Product guide: TLV see Section 2

STEL: see Section 2

Routes of Entry: Skin contact, Eye, Inhalation, Ingestion

Effects of Overexposure:

Acute; may cause respiratory system, skin, and/or eye irritation.

Ingestion may cause nausea, cramps, diarrhea, and other gastrointestinal

disorders.

Chronic; excess mist may cause respiratory problems.

Excess skin contact may cause dryness and/or sensitization.

Any suspected carcinogen = or > 0.1%?: NO

Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Emergency and First Aid Procedures

Eye: Immediately flush with water for 15 minutes and call a physician.

Inhalation: If affected, remove to fresh air, administer oxygen and call a physician.

Skin: Wash thoroughly with plenty of water and soap.

Ingestion: Seek a physician immediately; show MSDS or Label; DO NOT induce vomiting.

Wash soiled clothing before wearing again.

SECTION 6 - REACTIVITY DATA

Stable: YES

Conditions to Avoid: N/A

Incompatibility (Materials to avoid): YES, strong oxidizing agents

Hazardous Decomposition Products: YES, combustion products, see Section 4

Hazardous Polymerization: NO

Conditions to Avoid: N/A

SECTION 7 - SPILL OR LEAK PROCEDURES

Listed in SARA Title III, #302: NO

#304, Cercla: NO

#313: YES

Steps to be taken in case material is released or spilled:

Eliminate source if safe to do so. Prevent from entering waterways and drains. Wear suitable personal protective equipment. Dike and absorb with inert material and transfer to a sealed approved container for disposal. Any spill of this material that can enter navigable waters must be reported

immediately to the National Response Center (800-424-8802)

Report Quantity, Lb: N/A

Kg: N/A

TPQ, Lb: N/A

Regulations: SARA, TSCA

Other: N/A

Hazard Waste: NO

NO.:

Disposal Method: In accordance with Federal, State, and Local Regulations.

*** SARA Waste Characteristic: N/A

*** EPA Hazardous Waste Number: N/A

SECTION 8 - SAFE HANDLING AND PROTECTION INFORMATION

Respiratory Protection: Use only in well ventilated areas.

Ventilation - Local: Recommended

Special: Avoid Heat/Flame

Mechanical: Required

Other: N/A

Protective Gloves: Oil/Solvent resistant, Eye Protection: Safety Glasses/Goggles Other Protective Equipment:

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3

PRODUCT NAME:

WEARGUARD II

EFFECTIVE DATE:

03/03/08

SUPERCEDES DATE: 02/19/08

Oil/Solvent resistant clothing and footwear. If ventilation is inadequate,

wear approved respiratory equipment.
Estimated LD50, Mg/Kg: YES Dermal, Rabbit 2000, Oral Rat 13000

Estimated LC50, PPM: NO

Sensitization: NO

Irritant: NO

Synergistic Agents: NO

SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

Use only in well ventilated areas. Avoid prolonged or repeated breathing of fumes, vapor, or mist. Avoid contact with eyes and skin. DO NOT take internally. Wash thoroughly after using. In case of accident or illness, consult a physician immediately; show label and/or MSDS.

Keep out of reach of children.

Always read and follow directions on product label.

Other precautions:

More technical information (MSDS) available upon request. For professional industrial use only. Good personal hygiene is important. Empty containers retain residue which can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources; they may explode and cause injury or death.

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.

D-A Lubricant

1340 W. 29th St. Indianapolis, IN 46208 317/923-5321 CHEMICAL EMERGENCY HOTLINE 800 899-9004

PRODUCT NAME:

EXCELON EBS

PRODUCT DESCRIPTION: EXCELON EBS (formerly Titan EBS)

CHEMICAL FAMILY:

PETROLEUM OIL, MOTOR OIL

EFFECTIVE DATE:

03/03/08

SUPERCEDES DATE: 02/19/08

Dear Customer:

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SECTION 2 - HAZARDOUS INGREDIENTS									
COMPONENT CAS #	% WT	PEL	TLV	STEL	UNITS	LC50, PPM	LD50,MG/F	〈G	_
PETROLEUM OILS									_
64742-65-0	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000	
64741-88-4	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000	
ZINC DIORGANO-DITE	HIOPHOSPHATE								
68649-42-3	>1.5						RATI >5000	RABA >2000	SARA Rep.
PETROLEUM OILS									
64741-89-5	60-99	5	5		MG/M3		RATI 13000	RABA 2000	

SECTION 3 - PHYSICAL DATA

Boiling Pt Deg F/C: >500/>260

Specific Gravity: 0.86 to 0.90

Vapor Pressure (MM HG): NIL Vapor Density (Air=1): N/A

% Volatile Volume: NIL Evaporation Rate: <0.1

Solubility in Water: NEGLIGIBLE

Water/Oil Dist Coeff: 0

Appearance and Odor: Brown fluid with Mild Petroleum Odor

Physical State: LIQUID

PH: N/A

Freeze Pt Deg F/C: N/A

Threshold Odor, PPM: N/A

Other: N/A

VOC: Lbs/Gal = N/A

Grams/Liter = N/A

Grams VOC/Grams Solid = N/A

% VOC: N/A

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Classification: Combustible at high temp

NFPA Rating: 1.1.0

Combustion products: CO, CO2, Smoke, Sulfur, Nitrogen, Phosphorous, Boron, Molybdenum,

Calcium, and Zinc Compounds.

Flash Point Deg F/C: >370/>188

LEL %: N/A % UEL %: N/A %

Extinguishing Media: Water Fog, Foam, Dry Chemical, CO2, Sand, or Earth.

UN/NA/PIN#: N/A

Special Fire Fighting Procedures

Firefighters should wear self-contained breathing equipment. Treat as a Class B fire. Use

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2

PRODUCT NAME:

EXCELON EBS

EFFECTIVE DATE:

03/03/08

SUPERCEDES DATE: 02/19/08

water to cool threatened containers.

Auto Ign. Temp Deg F/C: >500/>260
Unusual fire and explosion hazards: N/A

Explosion Power: N/A Burning Rate: Low

Impact Sensitive: No Static Sensitive: No

SECTION 5 - HEALTH HAZARD DATA

Product guide: TLV see Section 2

STEL: see Section 2

Routes of Entry: Skin contact, Eye, Inhalation, Ingestion

Effects of Overexposure:

Acute; may cause respiratory system, skin, and/or eye irritation.

Ingestion may cause nausea, cramps, diarrhea, and other gastrointestinal

disorders.

Chronic; excess mist may cause respiratory problems.

Excess skin contact may cause dryness and/or sensitization.

Any suspected carcinogen = or > 0.1%?: NO

Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Emergency and First Aid Procedures

Eye: Immediately flush with water for 15 minutes and call a physician.

Inhalation: If affected, remove to fresh air, administer oxygen and call a physician.

Skin: Wash thoroughly with plenty of water and soap.

Ingestion: Seek a physician immediately; show MSDS or Label; DO NOT induce vomiting.

Wash soiled clothing before wearing again.

SECTION 6 - REACTIVITY DATA

Stable: YES

Conditions to Avoid: N/A

Incompatibility (Materials to avoid): YES, strong oxidizing agents

Hazardous Decomposition Products: YES, combustion products, see Section 4

Hazardous Polymerization: NO

Conditions to Avoid: N/A

SECTION 7 - SPILL OR LEAK PROCEDURES

Listed in SARA Title III, #302: NO

#304, Cercla: NO

#313: YES

Steps to be taken in case material is released or spilled:

Eliminate source if safe to do so. Prevent from entering waterways and drains. Wear suitable personal protective equipment. Dike and absorb with inert material and transfer to a sealed approved container for disposal. Any spill of this material that can enter navigable waters must be reported

immediately to the National Response Center (800-424-8802)

Report Quantity, Lb: N/A

Kq: N/A

TPQ, Lb: N/A

Other: N/A

Regulations: SARA, TSCA

Hazard Waste: NO

NO.:

Disposal Method: In accordance with Federal, State, and Local Regulations.

*** SARA Waste Characteristic: N/A

*** EPA Hazardous Waste Number: N/A

SECTION 8 - SAFE HANDLING AND PROTECTION INFORMATION

Respiratory Protection: Use only in well ventilated areas.

Ventilation - Local: Recommended

Special: Avoid Heat/Flame

Mechanical: Required

Other: N/A

Protective Gloves: Oil/Solvent resistant Eye Protection: Safety Glasses/Goggles

Other Protective Equipment:

Oil/Solvent resistant clothing and footwear. If ventilation is inadequate, wear approved respiratory equipment.

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PRODUCT NAME:

EXCELON EBS

EFFECTIVE DATE:

03/03/08

SUPERCEDES DATE:

02/19/08

Estimated LD50, Mg/Kg: YES Dermal, Rabbit 2000, Oral Rat 13000

Estimated LC50, PPM: NO

Sensitization: NO

Irritant: NO

Synergistic Agents: NO

SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

Use only in well ventilated areas. Avoid prolonged or repeated breathing of fumes, vapor, or mist. Avoid contact with eyes and skin. DO NOT take internally. Wash thoroughly after using. In case of accident or illness, consult a physician immediately; show label and/or MSDS.

Keep out of reach of children.

Always read and follow directions on product label.

Other precautions:

More technical information (MSDS) available upon request. For professional industrial use only. Good personal hygiene is important. Empty containers retain residue which can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources; they may explode and cause injury or death.

The information and recommendations provided herein are believed to be accurate as of the date hereof. However, such information and recommendations are provided without warranty of any kind and D-A Lubricant disclaims any and all liability or legal responsibility for use or reliance upon same.



SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.

D-A Lubricant

1340 W. 29th St. Indianapolis, IN 46208 317/923-5321 CHEMICAL EMERGENCY HOTLINE 800 899-9004

PRODUCT NAME:

DURAPLEX

PRODUCT DESCRIPTION: DURAPLEX, GRADES 1 AND 2

CHEMICAL FAMILY:

PETROLEUM OIL, GREASE

EFFECTIVE DATE:

01/22/09

SUPERCEDES DATE:

02/19/08

Dear Customer:

In compliance with the Superfund Amendments and Reauthorization Act (SARA Title III, Section 313), Federal Hazard Communications Regulations (WHMIS and OSHA 29 CFR 1910.1200) and in the interest of informed use of our product, we are providing you with this Material Safety Data Sheet (MSDS).

This MSDS will be updated regularly to reflect the most recent information in our possession. Please ensure that obsolete MSDS sheets in your files for this part number are discarded.

We THANK YOU for your continued patronage and look forward to providing you with additional quality products and services.

	SE	CTION 2	2 – H	AZARDO	ous in	GREDIENT	S		
COMPONENT CAS #	% WT	PEL	\mathtt{TLV}	STEL	UNITS	LC50, PPM	LD50,MG/	KG	
PETROLEUM OILS	,								
64742-52-5	60-99	5	5	10	MG/M3		RATI 5000	RABA 2000	
BARIUM TALLOW FATTY	ACID COMP	LEX							
68201-19-4	10-30	0.5	0.5		MG/M3				SARA Rep.
MOLYBDENUM DISULFIDE	2								
01317-33-5	1-5	15	10		MG/M3		RATI 6500		
ZINC NAPHTHENATE									
12001-85-3	1-5								SARA Rep.

SECTION 3 - PHYSICAL DATA

Boiling Pt Deg F/C: >500/>260

Specific Gravity: 0.89 TO 0.98

Vapor Pressure (MM HG): NIL Vapor Density (Air=1): N/A

% Volatile Volume: NIL Evaporation Rate: <0.1

Solubility in Water: NEGLIGIBLE

Water/Oil Dist Coeff: 0

Appearance and Odor: Gray grease with petroleum odor Physical State: SEMI SOLID

Freeze Pt Deg F/C: N/A

Threshold Odor, PPM: N/A

Other: N/A

VOC: Lbs/Gal = N/A

Grams/Liter = N/A

Grams VOC/Gram Solid = N/A

% VOC: N/A

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Classification: Combustible at high temp

NFPA Rating: 0.1.0

Combustion products: CO, CO2, Smoke, Sulfur, Nitrogen, Barium, Molybdenum, Phosphorus, and

Zinc compounds.

Flash Point Deg F/C: >370/>188

LEL %: N/A UEL %: N/A

Extinguishing Media: Water Fog, Foam, Dry Chemical, CO2, Sand, or Earth.

UN/NA/PIN#: N/A

Special Fire Fighting Procedures

Page

PRODUCT NAME:

DURAPLEX

EFFECTIVE DATE:

01/22/09

SUPERCEDES DATE: 02/19/08

Firefighters should wear self-contained breathing equipment. Treat as a Class B fire. Use water to cool threatened containers.

Auto Ign. Temp Deg F/C: >500/>260

Unusual fire and explosion hazards: N/A

Explosion Power: N/A

Burning Rate: Low

Impact Sensitive: No Static Sensitive: No

SECTION 5 - HEALTH HAZARD DATA

Product Guide: TLV see Section 2

STEL: see Section 2

Routes of Entry: Skin contact, Eye, Inhalation, Ingestion

Effects of Overexposure:

Acute; may cause respiratory system, skin, and/or eye irritation.

Ingestion may cause nausea, cramps, diarrhea, and other gastrointestinal disorders.

Chronic; excess mist may cause respiratory problems.

Excess skin contact may cause dryness.

Excess skin contact and/or ingestion may cause damage to lungs, kidneys,

heart, stomach and/or reproductive system.

Any suspected carcinogen = or >0.1%: NO

Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Emergency and First Aid Procedures

Eye: Immediately flush with water for 15 minutes and call a physician.

Inhalation: If affected, remove to fresh air, administer oxygen and call a physician.

Skin: Wash thoroughly with plenty of water and soap.

Ingestion: Seek a physician immediately, show MSDS or Label; DO NOT induce vomiting.

Wash soiled clothing before wearing again.

SECTION 6 - REACTIVITY DATA

Stable: YES

Conditions to Avoid: N/A

Incompatibility (Materials to avoid): YES, strong oxidizing agents Hazardous Decomposition Products: YES, pyrolysis products, CO, SOX Hazardous Polymerization: NO

Conditions to Avoid: N/A

SECTION 7 - SPILL OR LEAK PROCEDURES

Listed in SARA Title III, #302: NO

#304, Cercla: YES

Steps to be taken in case material is released or spilled:

Eliminate source if safe to do so. Prevent from entering waterways and drains. Wear suitable personal protective equipment. Dike and absorb with

inert material and transfer to a sealed approved container for disposal.

Report Quantity, Lb: N/A

Kq: N/A

TPQ, Lb: N/A

Regulations: SARA, CERCLA, RCRA, WHMIS

Other:

Hazard Waste: EP Toxic

No.: D005, D008

Disposal Method: In accordance with Federal, State, and Local Regulations.

SECTION 8 - SAFE HANDLING AND PROTECTION INFORMATION

Respiratory Protection: Use only in well ventilated areas.

Ventilation - Local: Recommended

Special: Avoid Heat/Flame

Mechanical: Required

Other: N/A

Protective Gloves: Oil/Solvent resistant Eye Protection: Safety Glasses/Goggles

Other Protective Equipment:

Oil/Solvent resistant clothing and footwear. If ventilation is inadequate,

Page

3

PRODUCT NAME:

DURAPLEX

EFFECTIVE DATE:

01/22/09

SUPERCEDES DATE: 02/19/08

wear approved respiratory equipment.

Estimated LD50, Mg/Kg: YES Dermal, Rabbit 2000, Oral Rat 5100

Estimated LC50, PPM: NO

Sensitization: NO

Irritant: NO

Synergistic Agents: NO

SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

Use only in well ventilated areas. Avoid prolonged or repeated breathing of fumes, vapor, or mist. Avoid contact with eyes and skin. DO NOT take internally. Wash thoroughly after using. Keep away from food, drink and animal feeds. Keep only in original labeled containers. In case of accident or illness, consult a physician immediately; show label and/or MSDS. Keep out of reach of children. Always read and follow directions on label.

Other precautions:

More technical information (MSDS) available upon request. For professional industrial use only. Good personal hygiene is most important. Empty containers retain residue which can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, spark or other ignition sources; they may explode and cause injury or death.

The information and recommendations provided herein are believed to be accurate as of the date hereof. However, such information and recommendations are provided without warranty of any kind and D-A Lubricant disclaims any and all liability or legal responsibility for use or reliance upon same.



SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.

D-A Lubricant

1340 W. 29th St. Indianapolis, IN 46208 317/923-5321 CHEMICAL EMERGENCY HOTLINE 800 899-9004

PRODUCT NAME:

DTL GEAR OIL, ALL GRADES

PRODUCT DESCRIPTION: DTL GEAR OIL, ALL GRADES PETROLEUM OIL, GEAR OIL

CHEMICAL FAMILY: EFFECTIVE DATE:

02/19/08

SUPERCEDES DATE: 03/02/05

Dear Customer:

In compliance with the Superfund Amendments and Reauthorization Act (SARA Title III, Section 313), Federal Hazard Communications Regulations (WHMIS and OSHA 29 CFR 1910.1200) and in the interest of informed use of our product, we are providing you with this Material Safety Data Sheet (MSDS).

This MSDS will be updated regularly to reflect the most recent information in our possession. Please ensure that obsolete MSDS sheets in your files for this part number are discarded.

We THANK YOU for your continued patronage and look forward to providing you with additional quality products and services.

SECTION 2 - HAZARDOUS INGREDIENTS								
COMPONENT CAS #	% WT	PEL	\mathtt{TLV}	STEL	UNITS	LC50, PPM	LD50,MG/H	K G
PETROLEUM OILS								
64742-65-0	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000
64741-88-4	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000
64742-01-4	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000
	60-99							
MOLYBDENUM DISULFIDE	1							
01317-33-5	0.1-5	15	10		MG/M3		RATI 6500	

SECTION 3 - PHYSICAL DATA

Boiling Pt Deg F/C: >500/>260

Specific Gravity: 0.86 to 0.90

Vapor Pressure (MM HG): NIL

% Volatile Volume: NIL Evaporation Rate: <0.1

Vapor Density (Air=1): N/A Solubility in Water: NEGLIGIBLE

Water/Oil Dist Coeff: 0

Appearance and Odor: Dark Amber Fluid with Mild Petroleum Odor

Physical State: LIQUID

PH: N/A

Freeze Pt Deg F/C: N/A

Threshold Odor, PPM: N/A

Other: N/A

VOC: Lbs/Gal = N/A

Grams/Liter = N/A

Grams VOC/Grams Solid = N/A

% VOC: N/A

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Classification: Combustible at high temp

NFPA Rating: 1.1.0

Combustion products: CO, CO2, Smoke, Sulfur, Nitrogen, Phosphorous, Boron and Molybdenum

Compounds.

Flash Point Deg F/C: >370/>188

LEL %: N/A % UEL %: N/A %

Extinguishing Media: Water Fog, Foam, Dry Chemical, CO2, Sand, or Earth.

UN/NA/PIN#: N/A

Special Fire Fighting Procedures

Firefighters should wear self-contained3Dt/eatthingRequipment of Treat as a Class B fire. Use water to cool threatened containers.

Page

03/02/05

PRODUCT NAME:

DTL GEAR OIL, ALL GRADES

EFFECTIVE DATE:

02/19/08

SUPERCEDES DATE:

Auto Ign. Temp Deg F/C: >500/>260

Unusual fire and explosion hazards: N/A

Explosion Power: N/A Burning Rate: Low

Impact Sensitive: No Static Sensitive: No

SECTION 5 - HEALTH HAZARD DATA

Product guide: TLV see Section 2

STEL: see Section 2

Routes of Entry: Skin contact, Eye, Inhalation, Ingestion

Effects of Overexposure:

Acute; may cause respiratory system, skin, and/or eye irritation.

Ingestion may cause nausea, cramps, diarrhea, and other gastrointestinal

disorders.

Chronic; excess mist may cause respiratory problems.

Excess skin contact may cause dryness and/or sensitization.

Any suspected carcinogen = or > 0.1%?: NO

Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Emergency and First Aid Procedures

Eye: Immediately flush with water for 15 minutes and call a physician.

Inhalation: If affected, remove to fresh air, administer oxygen and call a physician.

Skin: Wash thoroughly with plenty of water and soap.

Ingestion: Seek a physician immediately; show MSDS or Label; DO NOT induce vomiting.

Wash soiled clothing before wearing again.

SECTION 6 - REACTIVITY DATA

Stable: YES

Conditions to Avoid: N/A

Incompatibility (Materials to avoid): YES, strong oxidizing agents

Hazardous Decomposition Products: YES, combustion products, see Section 4

Hazardous Polymerization: NO

Conditions to Avoid: N/A

SECTION 7 - SPILL OR LEAK PROCEDURES

Listed in SARA Title III, #302: NO

#304, Cercla: NO

#313: NO

Steps to be taken in case material is released or spilled:

Eliminate source if safe to do so. Prevent from entering waterways and drains. Wear suitable personal protective equipment. Dike and absorb with inert material and transfer to a sealed approved container for disposal. Any spill of this material that can enter navigable waters must be reported immediately to the National Response Center (800-424-8802)

Report Quantity, Lb: N/A

Kg: N/A

TPQ, Lb: N/A

Regulations:

NO.:

Other: N/A

Hazard Waste: NO

Disposal Method: In accordance with Federal, State, and Local Regulations.

*** SARA Waste Characteristic: N/A

*** EPA Hazardous Waste Number: N/A

SECTION 8 - SAFE HANDLING AND PROTECTION INFORMATION

Respiratory Protection: Use only in well ventilated areas.

Ventilation - Local: Recommended

Special: Avoid Heat/Flame

Mechanical: Required

Other: N/A

Protective Gloves: Oil/Solvent resistant Eye Protection: Safety Glasses/Goggles Other Protective Equipment:

Oil/Solvent resistant clothing and footwear. If ventilation is inadequate,

wear approved respiratory equipment. Estimated LD50, Mg/Kg: YES Dermal, Rabbit 2000, Oral Rat 13000

Page

PRODUCT NAME:

DTL GEAR OIL, ALL GRADES

EFFECTIVE DATE:

02/19/08

SUPERCEDES DATE:

03/02/05

Estimated LC50, PPM: NO

Sensitization: NO

Irritant: NO

Synergistic Agents: NO

SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

Use only in well ventilated areas. Avoid prolonged or repeated breathing of fumes, vapor, or mist. Avoid contact with eyes and skin. DO NOT take internally. Wash thoroughly after using. In case of accident or illness, consult a physician immediately; show label and/or MSDS.

Keep out of reach of children.

Always read and follow directions on product label.

Other precautions:

More technical information (MSDS) available upon request. For professional industrial use only. Good personal hygiene is important. Empty containers retain residue which can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources; they may explode and cause injury or death.

The information and recommendations provided herein are believed to be accurate as of the date hereof. However, such information and recommendations are provided without warranty of any kind and D-A Lubricant disclaims any and all liability or legal responsibility for use or reliance upon same.



CITGO No. 2 Diesel Fuel, Low Sulfur, All Grades Material Safety Data Sheet

CITGO Petroleum Corporation

P. O. Box 4689 Houston, TX 77210 MSDS No.

AG2DF

Revision Date

12/31/2007

IMPORTANT: This MSDS is prepared in accordance with 29 CFR 1910.1200. Read this MSDS before transporting, handling, storing or disposing of this product and forward this information to employees, customers and users of this product.

Emergency Overview

Physical State Liquid.

Color

Transparent, clear to Odor

Characteristic, kerosene-like.

yellow or red.

WARNING!

Combustible liquid; vapor may cause flash fire.

Harmful or fatal if swallowed - can enter lungs and cause

damage.

Can cause eye, skin or respiratory tract irritation.

May be harmful if inhaled or absorbed through the skin.

Overexposure can cause central nervous system (CNS)

depression and/or other target organ effects.

Possible Cancer Hazard (See Section 3)

Harmful to aquatic organisms.

Hazard Rankings						
	HMIS	NFPA				
Health Hazard	* 2	0				
Fire Hazard	2	2				
Reactivity	0	0				
* = Chronic Heal	th Hazard					

Protective Equipment
Minimum Recommended See Section 8 for Details

SECTION 1. PRODUCT IDENTIFICATION

Trade Name CITGO No. 2 Diesel Fuel, Low Sulfur,

Technical Contact

(832) 486-5940

Product Number

All Grades Various

Medical Emergency

(832) 486-4700

CAS Number

68476-34-6

CHEMTREC Emergency (United States Only)

(800) 424-9300

Product Family

Motor fuels.

Synonyms

No. 2-D Grade Diesel Fuel Oil (defined by ASTM D-975); Treated or Refined Diesel Fuel No.

2; Diesel No. 2; Diesel Motor Fuel No. 2; Diesel Oil (Medium); Grade 2 Distillate Fuel;

Hydrodesulfurized (HDS) Light Catalytically Cracked Distillate; Middle Distillates (Petroleum); HDS Diesel; Hydrodesulfurized Medium Distillate; HDS Middle Distillate; C9-C16 Petroleum

Hydrocarbons; Ultra Low Sulfur Diesel.

SECTION 2. COMPOSITION

This product may be composed, in whole or in part, of any of the following refinery streams:

Diesel Fuel No. 2 [CAS No.: 68476-34-6]

Hydrodesulfurized Middle Distillate (petroleum) [CAS No.: 64742-80-9]

Hydrodesulfurized Light Catalytic Cracked Distillate (Petroleum) [CAS No.: 68333-25-5]

Kerosene [CAS No.: 8008-20-6]

Hydrodesulfurized Kerosine (Petroleum) [CAS No.: 64742-81-0]

This product contains the following chemical components:

Component Name(s)

CAS Registry No.

Concentration (%)

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MSDS No.

AG2DF

Revision Date

12/31/2007

Continued on Next Page

Nonane, all isomers	Mixture	1 - 10
Trimethylbenzenes, all isomers	25551-13-7	0 - 2
Naphthalene	91-20-3	0 - 2
Cumene	98-82-8	0 - 1
Ethylbenzene	100-41-4	0 - 1

SECTION 3. HAZARDS IDENTIFICATION

Also see Emergency Overview and Hazard Ratings on the top of Page 1 of this MSDS.

Major Route(s) of Entry Skin contact. Inhalation.

Signs and Symptoms of Acute Exposure

Inhalation	Breathing high concentrations may be harmful. Mist or vapor can irritate the throat and lungs.
------------	--

Breathing this material may cause central nervous system depression with symptoms including nausea, headache, dizziness, fatigue, drowsiness, or unconsciousness.

Eye Contact This material can cause eye irritation with tearing, redness, or a stinging or burning feeling.

Further, it can cause swelling of the eyes with blurred vision. Effects may become more

serious with repeated or prolonged contact.

Skin Contact This material can cause skin irritation. Symptoms include redness, itching, and burning of

the skin. This material can be absorbed by the skin and produce central nervous system depression (headache, nausea, fatigue and/or other symptoms including unconsciousness). If the skin is damaged, absorption increases. Prolonged and/or repeated contact may cause severe dermatitis and/or more serious skin disorders. Chronic symptoms may include

drying, swelling, scaling, blistering, cracking, and/or severe tissue damage.

Ingestion If swallowed, this material may irritate the mouth, throat, and esophagus. It can be absorbed

into the blood stream through the stomach and intestinal tract. Symptoms may include a burning sensation of the mouth and esophagus, nausea and vomiting. In addition, it can cause central nervous system effects characterized by dizziness, staggering, drowsiness,

delirium and/or loss of consciousness.

Because of the low viscosity, this material can enter the lungs directly by aspiration during swallowing or subsequent vomiting. Aspiration of a small amount of liquid can cause severe

lung damage and/or death.

Chronic Health Effects Summary

Secondary effects of ingestion and subsequent aspiration into the lungs may cause pneumatocele (lung cavity) formation and chronic lung dysfunction.

This product contains petroleum middle distillates similar to those shown to produce skin tumors on laboratory rodents following repeated application. All tumors appeared during the latter portion of the typical 2-year lifespan of the animals. Certain studies have shown that washing the exposed skin of the test animal with soap and water between treatments greatly reduces the potential tumorigenic effects. These data suggest that good personal hygiene is effective in reducing the risk of this potential adverse health effect.

This material and/or its components have been associated with developmental toxicity, reproductive toxicity, genotoxicity, immunotoxicity, and/or carcinogenicity. Refer to Section 11 of this MSDS for additional health-related information.

Conditions Aggravated by Exposure

Disorders of the following organs or organ systems that may be aggravated by significant exposure to this material or its components include: Skin, Respiratory System, Liver,

Kidneys, Central Nervous System (CNS)

Target Organs May cause damage to the following organs: kidneys, lungs, liver, mucous membranes, upper

respiratory tract, skin, central nervous system (CNS), eye, lens or cornea

Carcinogenic Potential

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MSDS No. AG2DF

Revision Date

12/31/2007

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This material may contain ethylbenzene and naphthalene at concentrations above 0.1%. IARC has identified ethylbenzene and naphthalene as possibly carcinogenic to humans (Group 2B) based on laboratory animal studies. The NTP has determined that naphthalene is reasonably anticipated to be a human carcinogen based on sufficient evidence from studies in experimental animals. NTP has determined that exposure to diesel exhaust particulates, a complex mixture of combustion products of diesel fuel, is reasonably anticipated to be a human carcinogen.

	ation is indicated by an "X" in the box adjacent to the hazard title. If no "X" is pres xhibit the hazard as defined in the OSHA Hazard Communication Standard (29 CFR	
OSHA Health Hazard	Classification OSHA Physical Hazard Classification	
Irritant X Sensit Toxic Highly Corrosive Carcin	Toxic	
Take proper precautio	ST AID MEASURES us to ensure your own health and safety before attempting rescue or providing first	
Inhalation	mation, refer to Exposure Controls and Personal Protection in Section 8 of this MS Move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If breathing is difficult, 100 percent humidified oxygen should be administered by a qualified individual. Seek medical attention immediately. Keep the affected individual warm and at rest.	υS.
Eye Contact	Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water for a least 15 minutes while occasionally lifting and lowering eyelids. Do not use eye ointment unless directed to by a physician. Seek medical attention if excessive tearing, irritation, or pain persists.	at
Skin Contact	Remove contaminated shoes and clothing. Flush affected area with large amounts of wate If skin surface is damaged, apply a clean dressing and seek medical attention. Do not use ointments. If skin surface is not damaged, clean affected area thoroughly with mild soap ar water. Seek medical attention if tissue appears damaged or if pain or irritation persists.	
Ingestion	Do not induce vomiting. If spontaneous vomiting is about to occur, place victim's head beloknees. If victim is drowsy or unconscious, place on the left side with head down. Never given anything by mouth to a person who is not fully conscious. Do not leave victim unattended. Seek medical attention immediately.	
Notes to Physician	INHALATION: Inhalation overexposure can produce toxic effects. Monitor for respiratory distress. If cough or difficulty in breathing develops, evaluate for upper respiratory tract inflammation, bronchitis, and pneumonitis. Administer supplemental oxygen with assisted ventilation, as required.	
	INGESTION: If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcos and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position	

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MSDS No. AG2DF

SECTION 5. FIRE FIGHTING MEASURES

NFPA Flammability Classification

NFPA Class-II combustible liquid.

Flash Point

Closed cup: AP 52°C (AP 125°F). (Pensky-Martens.)

Lower Flammable Limit AP 0.6 %

Upper Flammable Limit AP 7.5 %

Autoignition **Temperature** >254°C (>489°F)

Products

Hazardous Combustion Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and oxides of

sulfur and nitrogen.

Special Properties Combustible Liquid! This material releases vapors when heated above ambient

temperatures. Vapors can cause a flash fire. Vapors can travel to a source of ignition and flashback. A vapor and air mixture can create an explosion hazard in confined spaces such as sewers. Use only with adequate ventilation. If container is not properly cooled, it can

rupture in the heat of a fire.

Extinguishing Media SMALL FIRE: Use dry chemicals, carbon dioxide, foam, or inert gas (nitrogen). Carbon

dioxide and inert gas can displace oxygen. Use caution when applying carbon dioxide or

inert gas in confined spaces.

LARGE FIRE: Use foam, water fog, or water spray. Water fog and spray are effective in cooling containers and adjacent structures. However, water can cause frothing and/or may not extinguish the fire. Water can be used to cool the external walls of vessels to prevent excessive pressure, autoignition or explosion. DO NOT use a solid stream of water directly

on the fire as the water may spread the fire to a larger area.

Protection of Fire **Fighters**

Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles. Cover pooling liquid with foam. Containers can build pressure if exposed to radiant heat: cool adjacent containers with flooding quantities of water until well after the fire is out. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of vessels, tanks, or pipelines. Be aware that burning liquid will float on water. Notify appropriate authorities of potential fire and explosion hazard if liquid enter sewers or waterways.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For more specific information, refer to the Emergency Overview on Page 1, Exposure Controls and Personal Protection in Section 8 and Disposal Considerations in Section 13 of this MSDS.

> Combustible Liquid! Release can result in a fire hazard. Evacuate all non-essential personnel from release area. Establish a regulated zone with site control and security. Eliminate all ignition sources. Stop the leak if it can done without risk. A vapor-suppressing foam may be used to reduce vapors. Properly bond or ground all equipment used when handling this material. Avoid skin contact. Do not walk through spilled material. Verify that responders are properly trained and wearing appropriate personnel protective equipment. Dike far ahead of a liquid spills. Do not allow released material to entry waterways, sewers, basements, or confined areas. This material will float on water. Absorb or cover with dry earth, sand or other non-combustible material. Use clean, non-sparking tools to collect absorbed material. Place spent sorbent materials, free liquids and other clean-up debris into proper waste containers for appropriate disposal. Certain releases must be reported to the National Response Center (800/424-8802) and state or regulatory authorities. Comply with all laws and regulations.

> > 03/04/2011 KCR JV Page 65 of 73

MSDS No. AG2DF

SECTION 7. HANDLING AND STORAGE

Handling

Combustible Liquid!

A static electrical charge can accumulate when this material is flowing through pipes, nozzles or filters and when it is agitated. A static spark discharge can ignite accumulated vapors particularly during dry weather conditions. Always bond receiving containers to the fill pipe before and during loading. Always keep nozzle in contact with the container throughout the loading process. Do not fill any portable container in or on a vehicle. Special precautions, such as reduced loading rates and increased monitoring, must be observed during "switch loading" operations (i.e., loading this material in tanks or shipping compartments that previously containing gasoline or similar low flash point products).

Fire hazard increases as product temperature approaches its flash point. Keep container closed and drum bungs in place. Remove spillage immediately from walking areas. Do not handle or store near heat, sparks or other potential ignition sources. Do not handle or store with oxidizing agents. Avoid breathing mist or vapor. Never siphon by mouth. Do not taste or swallow. Avoid contact with eyes, skin and clothing. Use gloves constructed of impervious materials and protective clothing if direct contact is anticipated. Provide ventilation to maintain exposure potential below applicable exposure levels. Avoid water contamination. Wash thoroughly after handling. Prevent contact with food or tobacco products.

When performing repairs and maintenance on contaminated equipment, keep unnecessary persons from hazard area. Eliminate heat, flame and other potential ignition sources. Drain and purge equipment, as necessary, to remove material residues. Remove contaminated clothing. Wash exposed skin thoroughly with soap and water after handling.

Do not use this material as fuel for equipment, such as portable heaters, in enclosed areas. Hazardous combustion products can cause death.

Protect the environment from releases of this material. Prevent discharges to surface waters and groundwater. Maintain handling, transfer and storage equipment in proper working order.

Misuse of empty containers can be dangerous. Empty containers may contain material residues which can ignite with explosive force. Cutting or welding of empty containers can cause fire, explosion, or release of toxic fumes from residues on not pressurize or expose empty containers to open flame, sparks, or heat. Keep container closed and drum bungs in place. All label warnings and precautions must be observed. Return empty drums to a qualified reconditioner. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling, or disposing of empty containers and/or waste residues of this material.

Storage

Store in a cool, dry, well-ventilated place. Keep containers tightly closed. Do not store this product near heat, flame or other potential ignition sources. Do not store with oxidizers. Do not store this product in unlabeled containers. Do not puncture or incinerate containers. Ground all equipment containing this material. All electrical equipment in areas where this material is stored or handled must meet all applicable requirements of the NFPA's National Electrical Code (NEC). Store and transport in accordance with all applicable laws.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls

Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. All electrical equipment should comply with the National Electric Code. An emergency eye wash station and safety shower should be located near the work-station.

Personal Protective Equipment

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations. The following pictograms represent the minimum requirements for personal protective equipment. For certain operations, additional PPE may be required.

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Eye Protection

Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. Chemical goggles should be worn during transfer operations or when there is a likelihood of misting, splashing, or spraying of this material. A suitable emergency eye wash water and safety shower should be located near the work station.

Hand Protection

Avoid skin contact. Use heavy duty gloves constructed of chemical resistant materials such as Viton® or heavy nitrile rubber. Wash hands with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities or leaving work. DO NOT use gasoline, kerosene, solvents or harsh abrasives as skin cleaners.

Body Protection

Avoid skin contact. Wear long-sleeved fire-retardant garments (e.g., Nomex®) while working with flammable and combustible liquids. Additional chemical-resistant protective gear may be required if splashing or spraying conditions exist. This may include an apron, boots and additional facial protection. If product comes in contact with clothing, immediately remove soaked clothing and shower. Promptly remove and discard contaminated leather goods.

Respiratory Protection

Airborne concentration will determine the level of respiratiory protection required. Respiratory protection is normally not required unless the product is heated or misted. For known or anticipated vapor or mist concentrations above the occupational exposure guidelines (see below), use a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter if adequate protection is provided. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).

General Comments

Warning! Use of this material in spaces without adequate ventilation may result in generation of hazardous levels of combustion products and/or inadequate oxygen levels for breathing. Odor is an inadequate warning for hazardous conditions.

Occupational Exposure Guidelines

Substance Applicable Workplace Exposure Levels

Nonane, all isomers ACGIH (United States).

TWA: 200 ppm 8 hour(s).

Ethylmethylbenzene, all isomers

Trimethylbenzenes, all isomers

ACGIH (United States).

TWA: 25 ppm 8 hour(s).

Naphthalene

ACGIH (United States). Skin
TWA: 10 ppm 8 hour(s).

STEL: 15 ppm 15 minute(s)

STEL: 15 ppm 15 minute(s).

OSHA (United States).

TWA: 10 ppm 8 hour(s).

Cumene

ACGIH (United States).

TWA: 50 ppm 8 hour(s).

OSHA (United States). Skin

TWA: 50 ppm 8 hour(s).

n-Propylbenzene Not available.
1, 2, 4 Trimethylbenzene Not available.

Ethylbenzene

ACGIH (United States).

TWA: 100 ppm 8 hour(s).

STEL: 125 ppm 15 minute(s).

OSHA (United States).
TWA: 100 ppm 8 hour(s).
ACGIH (United States).
TWA: 100 ppm 8 hour(s).

STEL: 150 ppm 15 minute(s).

STA (United States).

TWA: 100 ppm 8 hour(s). Not available.

Diesel exhaust particulate

Not available.

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Xylene, all isomers

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Benzene

Toluene

ACGIH (United States). Skin

TWA: 0.5 ppm 8 hour(s). STEL: 2.5 ppm 15 minute(s).

OSHA (United States). Skin Notes: See Table Z-2 for exclusions

in 20 CFR 1910.1028 to the PEL.

TWA: 1 ppm 8 hour(s). STEL: 5 ppm 15 minute(s). ACGIH (United States). Skin TWA: 20ppm 8 hour(s).

OSHA (United States). TWA: 200 ppm 8 hour(s).

CEIL: 300 ppm PEAK: 500 ppm Not available.

Middle distillates, petroleum

Straight-run middle distillate (petroleum)

ACGIH (United States, 1998). Skin

TWA: 100 mg/m³

Not available.

Distillates, petroleum, light catalytic cracked

Kerosene

NIOSH REL (United States).

TWA: 100 mg/m³ 8 hour(s). Not available.

Hydrodesulfurized middle distillate (petroleum) Hydrodesulfurized Kerosine (Petroleum) Distillates, petroleum, hydrodesulfurized light

catalytic cracked Diesel Fuel No. 2

Not available. Not available.

ACGIH TLV (United States). Skin TWA: 100 mg/m³ 8 hour(s).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

Physical State

Liquid.

w/w)

Color

Transparent, clear to yellow or red.

Odor

Characteristic, kerosene-like.

Specific Gravity

AP 0.84 (Water = 1)

Hq

Not Applicable.

Vapor Density AP 5 (Air = 1)

Boiling Range

154° C (309° F) to 371° C (700° F)

Melting/Freezing

Not available.

Vapor Pressure

<0.3 kPa (<2 mm Hg) (at 20°C)

Volatility

Point

840 g/I VOC (w/v)

Solubility in Water

Very slightly soluble in cold water. (<0.1 %

Viscosity

(cSt @ 40°C)

AP 3

Flash Point

Closed cup: AP 52°C (AP 125°F). (Pensky-Martens.)

Additional

Density = AP 7.0 lbs/gal.

Properties

Viscosity (ASTM D2161) = 30 - 40 SUS @ 100° F

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Stable.

Hazardous Polymerization Not expected to occur.

Conditions to Avoid

Keep away from all ignition sources and strong oxidizing conditions.

Materials Incompatibility Strong acids, alkalies, and oxidizers such as liquid chlorine, other halogens, hydrogen peroxide and oxygen.

Hazardous

Decomposition **Products**

No additional hazardous decomposition products were identified other than the combustion

products identified in Section 5 of this MSDS.

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SECTION 11. TOXICOLOGICAL INFORMATION

For other health-related information, refer to the Emergency Overview on Page 1 and the Hazards Identification in Section 3 of this MSDS.

Toxicity Data

Diesel Fuel, No. 2

ORAL LD50, Acute: 12,000 to 17,500 mg/kg or 9.0 ml/kg [Rat] DERMAL LD50, Acute: >5.0 ml/kg [Rabbit screen level].

DRAIZE EYE, Acute: Mild irritant [Rabbit]

DRAIZE DERMAL, Acute: Severe skin irritant [Rabbit]. BUEHLER DERMAL, Acute: Non-sensitizing [Guinea Pig]

14-Day DERMAL, Sub-chronic: 0% and 67% mortality at 4.0 and 8.0 ml/kg [Rabbit] 62-Week DERMAL, Chronic: 0.05 ml/kg 3x/week [Mouse] - Extreme skin irritation. 97-Week DERMAL, Chronic: 243 g/kg applied 3x/week [Mouse] - Extreme skin irritation.

Moderate increase in contact-point skin tumors.

MUTAGENICITY:

Modified Ames Assay: Negative. [Salmonella typhimurium] In-vitro SCE Ovary Assay: Negative. [Chinese Hamster]

In-vitro Lymphoma Assay: Negative. [Mouse] In-vivo Dominant Lethal Assay: Negative. [Mouse]

In-vivo Bone Marrow Assay: Clastogenic at 2.0 ml/kg and 6.0 ml/kg [Rat]

Diesel exhaust particulate

Lung tumor and lymphomas were identified in rats and mice exposed to unflitered diesel fuel exhaust in chronic inhalation studies. Further, epidemiological studies have identified increase incidences of lung cancer in US railroad workers and bladder cancer in bus and truck drivers possibly associated with exposure to diesel engine exhaust. NTP has determined that exposure to diesel exhaust particulates, a complex mixture of combustion products of diesel fuel, is reasonably anticipated to be a human carcinogen. In addition, NIOSH has identified complete diesel exhaust as a potential carcinogen.

Trimethylbenzenes, all isomers

Studies of Workers:

Levels of total hydrocarbon vapors present in the breathing atmosphere of these workers ranged from 10 to 60 ppm. The TCLo for humans is 10 ppm, with somnolence and respiratory tract irritation noted.

Studies in Laboratory Animals:

In inhalation studies with rats, four of ten animals died after exposures of 2400 ppm for 24 hours. An oral dose of 5 mL/kg resulted in death in one of ten rats. Minimum lethal intraperitoneal doses were 1.5 to 2.0 mL/kg in rats and 1.13 to 12 mL/kg in guinea pigs. Mesitylene (1, 3, 5 Trimethylbenzene) inhalation at concentrations of 1.5, 3.0, and 6.0 mg/L for six hours was associated with dose-related changes in white blood cell counts in rats. No significant effects on the complete blood count were noted with six hours per day exposure for five weeks, but elevations of alkaline phosphatase and SGOT were observed. Central nervous system depression and ataxia were noted in rats exposed to 5,100 to 9,180 ppm for two hours.

Naphthalene

Studies in Humans Overexposed to Naphthalene:

Severe jaundice, neurotoxicity (kernicterus) and fatalities have been reported in young children and infants as a result of hemolytic anemia from over-exposure to naphthalene. Persons with Glucose 6-phosphate dehydrogenase (G6PD) deficiency are more prone to the hemolytic effects of naphthalene. Adverse effects on the kidney have also been reported from over-exposure to naphthalene but these effects are believed to be a consequence of hemolytic anemia, and not a direct effect.

Studies in Laboratory Animals:

Hemolytic anemia has been observed in laboratory animals exposed to naphthalene. Laboratory rodents exposed to naphthalene vapor for 2 years (lifetime studies) developed non-neoplastic and neoplastic tumors and inflammatory lesions of the nasal and respiratory

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tract. Cataracts and other adverse effects on the eye have been observed in laboratory animals exposed to high levels of naphthalene. Findings from a large number of bacterial and mammalian cell mutation assays have been negative. A few studies have shown chromosomal effects (elevated levels of Sister Chromatid Exchange or chromosomal aberrations) *in vitro*.

Ethylbenzene

Effects from Acute Exposure:

ORAL (LD50), Acute: 3,500 mg/kg [Rat]. DERMAL (LD50), Acute: 17,800 uL/kg [Rabbit].

INTRAPERITONEAL (LD50), Acute: 2,624 mg/kg [Rat].

Effects from Prolonged or Repeated Exposure:

Findings from a 2-year inhalation study in rodents conducted by NTP were as follows: Effects were observed only at the highest exposure level (750 ppm). At this level the incidence of renal tumors was elevated in male rats (tubular carcinomas) and female rats (tubular adenomas). Also, the incidence of tumors was elevated in male mice (alveolar and bronchiolar carcinomas) and female mice (hepatocellular carcinomas). IARC has classified ethyl benzene as "possibly carcinogenic to humans" (Group 2B). Studies in laboratory animals indicate some evidence of post-implantation deaths following high levels of maternal exposure. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals indicate limited evidence of renal malformations, resorptions, and developmental delays following high levels of maternal exposure. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals indicate some evidence of adverse effects on the liver, kidney, thyroid, and pituitary gland.

Middle distillates, petroleum

Long-term repeated (lifetime) skin exposure to similar materials has been reported to result in an increase in skin tumors in laboratory rodents. The relevance of these findings to humans is not clear at this time.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Freshwater Toxicity:

Concentration: 2400 ppm Exposure: 48 hrs. Species: Juven. Am. Shad (Squalius

cephalus) Assay: TLM

Concentration: >127 ppm Exposure: 96 hrs. Species: Bluegill (Lepomis macrochirus)

Assay: LC50

Saltwater Toxicity

Concentration: 10 ppm Exposure: 96 hrs. Species: Menhaden (Brevoortia patronus)

Assav: LC50

Concentration: 10 ppm Exposure: 96 hrs. Species: Grass Shrimp Assay: LC50

Environmental Fate

If spilled, this material will normally evaporate. Hydrocarbon components may contribute to atmospheric smog. If released to the subsoils, petroleum middle distillate fuels will strongly adsorb to soils. Groundwater should be considered as an exposure pathway. Liquid and vapor can migrate through the subsurface and preferential pathways (such as utility line backfill) to downgradient receptors.

Middle distillates are potentially toxic to freshwater and saltwater ecosystems. Distillate fuels will normally float on water. In stagnant or slow-flowing waterways, a hydrocarbon layer can cover a large surface area. As a result, this oil layer can limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway can cause a fish kill or create an anaerobic environment. Also, this coating action can also kill plankton, algae, and water birds.

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SECTION 13. DISPOSAL CONSIDERATIONS

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

> Maximize material recovery for reuse or recycling. Recovered non-usable material may be regulated by US EPA as a hazardous waste due to its ignitibility (D001) and/or its toxic (D018) characteristics. In addition, conditions of use may cause this material to become a hazardous waste, as defined by Federal or State regulations. It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Transportation. treatment, storage, and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR Parts 260 through 271). Contact your regional US EPA office for guidance concerning case specific disposal issues. State and/or local regulations might be even more restrictive.

SECTION 14. TRANSPORT INFORMATION

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

US DOT Status

A U.S. Department of Transportation (DOT) regulated material. The following U.S. DOT hazardous materials shipping description applies to bulk packaged material that is transported by highway or rail. Alternate shipping descriptions may be required for product transported by marine vessel, air or other method and for non-bulk packaged material.

Proper Shipping Name Diesel Fuel, Combustible liquid, NA1993. PG III

Hazard Class

DOT Class: Combustible liquid with a flash Packing Group 111 point greater than 37.8°C (100°F). **UN/NA Number** NA 1993

Reportable Quantity

A Reportable Quantity (RQ) has not been established for this material.

Placard(s)



Emergency Response

Guide No.

MARPOL III Status

Not a DOT "Marine

Pollutant" per 49 CFR 171.8.

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SECTION 15. REGULATORY INFORMATION

TSCA Inventory

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

SARA 302/304 Emergency Planning and Notification

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.

SARA 311/312 Hazard Identification

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories:

fire, Acute (Immediate) Health Hazard, Chronic (Delayed) Health Hazard

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Page Number: 10

CITGO No. 2 Diesel Fuel, Low Sulfur, All Grades

SARA 313 Toxic Chemical Notification and Release Reporting

This product contains the following components in concentrations above *de minimis* levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA:

Naphthalene [CAS No.: 91-20-3] Concentration: 2% Ethylbenzene [CAS No.: 100-41-4] Concentration: 0.9%

CERCLA

The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are:

Naphthalene [CAS No.: 91-20-3] RQ = 100 lbs. (45.36 kg) Concentration: 2% Cumene [CAS No.: 98-82-8] RQ = 5000 lbs. (2268 kg) Concentration: 0.9% Ethylbenzene [CAS No.: 100-41-4] RQ = 1000 lbs. (453.6 kg) Concentration: 0.9% Xylene, all isomers [CAS No.: 1330-20-7] RQ = 100 lbs. (45.36 kg) Concentration: 0.9%

Benzene [CAS No.: 71-43-2] RQ = 10 lbs. (4.536 kg) Concentration: 0.045%

Clean Water Act (CWA)

This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

California
Proposition 65

This material may contain the following components which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

Diesel exhaust particulate Naphthalene: <2%

Ethylbenzene: <1% Toluene: <0.1% Benzene: <0.1%

New Jersey Right-to-Know Label Diesel Fuel

Additional Remarks

As minimum requirements, CITGO recommends that the following advisory information be displayed on equipment used to dispense diesel fuel. Additional warnings specified by various regulatory authorities may be required: "Diesel Fuel DANGER: Combustible Liquid. Use as a Motor Fuel Only. DO NOT FILL CONTAINERS THAT HAVE PREVIOUSLY CONTAINED GASOLINE OR OTHER FLAMMABLE LIQUIDS. Sparks From static electricity can ignite flammable vapor residues. PLACE CONTAINER ON GROUND. DO NOT FILL ANY PORTABLE CONTAINER IN OR ON A VEHICLE. Containers must be metal or other material approved for storing diesel fuel. Keep nozzle spout in contact with the container during the entire filling operation. NO SMOKING! Do not leave nozzle unattended during filling. HARMFUL OR FATAL IF SWALLOWEDIf swallowed, do not induce vomiting. Call Physician Immediately. Keep Out of Reach of Children. Avoid prolonged breathing of vapors. Never siphon by mouth. Do not store in vehicle or living space. Store and use in a well ventilated area. Do not use near heat, spark or flame. Keep container closed."

SECTION 16. OTHER INFORMATION

Refer to the top of Page 1 for the HMIS and NFPA Hazard Ratings for this product.

REVISION INFORMATION

Version Number

5.1

Revision Date

12/31/2007

ABBREVIATIONS

AP: Approximately EQ: Equal >: Greater Than <: Less Than NA: Not Applicable ND: No Data NE: Not Establishe

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12/31/2007

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Page Number: 11

CITGO No. 2 Diesel Fuel, Low Sulfur, All Grades

ACGIH: American Conference of Governmental Industrial Hygienists

IARC: International Agency for Research on Cancer

NIOSH: National Institute of Occupational Safety and Health

NPCA: National Paint and Coating Manufacturers Association

NFPA: National Fire Protection Association

AIHA: American Industrial Hygiene Association

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

HMIS: Hazardous Materials Information System

EPA: US Environmental Protection Agency

DISCLAIMER OF LIABILITY

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**** END OF MSDS ****

Woodard, Dawn (DEQ)

From: James Kassouf [jkassouf@creqcc.com]
Sent: Friday, March 04, 2011 11:38 AM

To: Woodard, Dawn (DEQ)

Subject: KCR Joint Venture Permit application 1 of 2

Attachments: KCR VPDES Permit Application Final Part3.pdf; KCR VPDES Permit Application

Final_Part4.pdf; KCR VPDES Permit Application Final_Part1.pdf

Dawn,

Please see the revised application attached. We will overnight an original to you.

Please let me know if there are any other issues encountered. We appreciate all of your assistance on this matter.

Attached Part 1, 3 and 4

Thank you for your time,

James R. Kassouf

Kassouf & Clinton Road Joint Venture 11654 Plaza America Dr., # 177 Reston, VA 20190 (216) 409-7509 Mobile (216) 395-0101Fax JKassouf@CREQCC.com



-PROJECT-

Owner: Fairfax County Water Authority Title: Corbalis to Fox Mill 54" Water Main

Project: 1859/4 Contract No: 4500000646

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Woodard, Dawn (DEQ)

From: James Kassouf [jkassouf@creqcc.com]
Sent: Friday, March 04, 2011 11:47 AM

To: Woodard, Dawn (DEQ)

Subject: KCR Joint Venture Permit application 2 of 2 **Attachments:** KCR VPDES Permit Application Final_Part2.pdf

This is email 2of 2 Attached Part 2

Thank you for your time,

James R. Kassouf

Kassouf & Clinton Road Joint Venture 11654 Plaza America Dr., # 177 Reston, VA 20190 (216) 409-7509 Mobile (216) 395-0101Fax JKassouf@CREQCC.com



-PROJECT-

Owner: Fairfax County Water Authority Title: Corbalis to Fox Mill 54" Water Main

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VPDES GENERAL PERMIT REGISTRATION STATEMENT FOR DISCHARGES FROM PETROLEUM CONTAMINATED SITES, GROUNDWATER REMEDIATION AND HYDROSTATIC TESTS (VAG83)

Please Type or Print all information

VA DEO - NRO

1.	Legal Name of Facility Corbalis to Fo	ox Mill 54" Wat	er Main –Work S	lite A	
	Location of Facility (Street No., Route No., or Otherw Dominion Pkwy	=			Fairfax Co. Pkwy &
3.	Facility Owner Name (individual or corporate)	Kassouf Co. &	Clinton Road Jo	int Venture (KC	<u>R)</u>
	Owner Address: 11654 Plaza America	<i>Dr.</i> #177,			
	Reston,		VA State		<u>20190</u> Zip
	Phone: (216) 409 – 7509	Email Addre			*
4.	Nature of the business conducted at the fa	acility <i>Utility In</i> .	stallation By Tun	neling	
5.	Type of petroleum product(s) causing or Oil, Motor Oil, Grease, Gear Oil, SE				g Grease, Hydraulic
	If chlorinated hydrocarbon solvents are that the site.	ne constituents of	concern, list the c	hlorinated hydroca	rbons present in water
6.	Which activities will result in a point sou X Excavation Dewatering Purging Ground Water Monitoring Aquifer Tests to Characterize Site Hydrostatic Tests of Petroleum State Hydrostatic Tests of Natural Gas State Pumping Contaminated Groundwrother Petroleum Product or Chlor X (specify) Mining Equipment Coo	g Wells Conditions orage Tanks or P Storage Tanks or ater to Remove F inated Hydrocarl	ipelines Pipelines ree Product From oon Solvent Cleanu	The Ground up Activity	
7.	Has a site characterization report for this Yes NoX	site been submitt	ed to the Departmo	ent of Environmen	tal Quality?
8.	Characterize or describe the wastewater to Provide analytical data. See Attached MS	•		•	resent in the wastewater
9,	. Identify the discharge point and the water Pkwy and New Dominion Pkwy into culv				Corner of Fairfax Co.
10.	. How often will the discharge occur (e.g.,	daily, monthly, o	ontinuously)? <u>Co</u>	ntinuously	
11.	. Estimate how long each discharge will la	st: <u>NA</u>	hours or days		
12.	. Estimate total volume of wastewater to be	e discharged:	2 mil	Gal.	VAG83 - RS

13.	Estimate maximum flow rate of the discharge: Gal/day.
14.	Attach a diagram of the proposed wastewater treatment system identifying the individual treatment units.
15.	Attach a topographic or other map which indicates the receiving waterbody name, the discharge point(s), the property boundaries, as well as springs, other surface waterbodies, drinking water wells, and public water supplies, which are identified in the public record or are otherwise known to the applicant, within a 1/2 mile radius of the proposed discharge(s).
16.	Are central wastewater treatment facilities available to this site? Yes X No
	It is presently being evaluated as well as a tandem system
17.	Does this facility currently have a permit issued by the Board? Yes NoX If yes, please provide permit number:
18.	Pollution Complaint Number(s) (if applicable)
19.	Is the material being treated or discharged classified as a hazardous waste under the Virginia Hazardous Waste Regulation, 9 VAC 20-60? Yes No_X
20.	Certification:
	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. I do also hereby grant duly authorized agents of the Department of Environmental Quality, upon presentation of credentials, permission to enter the property for the purpose of determining the suitability of the general permit.
	nature:
Prir	nt Name: James R. Kassouf
Titl	e: Partner, Kassouf & Clinton Road Joint Venture
RE	QUIRED ATTACHMENTS Wastewater Characterization Analytical Data Treatment Works Design Schematic Drawing Topographic Map
For	* Department Use Only: Waterbody
	Waterbody Stream Class Section
	Special Standards

INSTRUCTIONS FOR COMPLETING THE VPDES GENERAL PERMIT REGISTRATION STATEMENT FOR DISCHARGES FROM PETROLEUM CONTAMINATED SITES, GROUNDWATER REMEDIATION AND HYDROSTATIC TESTS (VAG83)

GENERAL

A Registration Statement must be submitted to the Department of Environmental Quality (DEQ) in order for DEQ to consider a proposed discharge for coverage under the VPDES General Permit for Discharges from Petroleum Contaminated Sites, Groundwater Remediation and Hydrostatic Tests (VAG83). Discharges not associated with petroleum-contaminated water, hydrostatic tests, or chlorinated hydrocarbon-contaminated water are not eligible for coverage under this general permit.

To apply for coverage, an owner must file a complete Registration Statement with the Department. Any owner proposing a new discharge must file a complete registration statement at least 30 days prior to the date planned for commencing operation of the new discharge. Any owner of an existing discharge covered by an individual VPDES permit who is proposing to be covered under this general permit must file a registration statement at least 180 days prior to the expiration date of the individual VPDES permit. Any owner of an existing discharge not currently covered by a VPDES permit who is proposing to be covered under this general permit must file a complete registration statement as soon as possible.

Items 1 and 2: FACILITY INFORMATION

Give the name of the business or other entity that occupies the site where the discharge is proposed to occur. Provide either the street address or other information that will allow DEQ personnel to locate the site. Give a telephone number at the site so that DEQ can contact someone at the facility.

Item 3: OWNER INFORMATION

Provide the full name, street address and telephone numbers of the owner to whom the permit will be issued. This person, firm, public organization or other entity is the party responsible for the control of the facility's operation.

Item 4: NATURE OF BUSINESS

Give a brief statement as to what usual business activities are conducted at the site of contamination.

Item 5. PRODUCTS CAUSING THE CONTAMINATION

Provide information about the types of petroleum products or chlorinated hydrocarbons that have contaminated water at the site.

Item 6: PROPOSED ACTIVITIES

Select all of the categories that apply to this proposed discharge. If events at the facility will cause the discharge to change over time from one category to another, indicate all categories that are anticipated.

Item 7: SITE CHARACTERIZATION

Please indicate if a site characterization report (SCR) has been submitted to DEQ. NOTE: An SCR is required from the person responsible for conducting the release investigation and performing corrective action. If you are not the Responsible Person (RP), you are NOT required to submit an SCR.

Item 8. WASTEWATER CHARACTERIZATION

The person applying for coverage under this permit must characterize or provide information about the wastewater to be discharged including the types of contaminants present in the wastewater. This characterization must include analytical data.

Item 9: DISCHARGE LOCATION

Provide a narrative description of the point of discharge (e.g., northwest corner of intersection of First St. and Second Ave.) Give the name of the stream, lake, river, etc. that the discharge will go into (e.g., Unnamed Tributary to Clear Creek). If the discharge is to enter a storm drain, give the name of the owner of the storm drain system (e.g., Fairfax Co. storm drain inlet).

Item s 10, 11, 12 and 13: DISCHARGE INFORMATION

Provide estimates of the frequency at which the discharge will occur, the duration of the discharge and of the amount and flow rate of wastewater to be discharged.

Item 14: TREATMENT WORKS DESIGN

Attach a line drawing that traces the flow of wastewater from one treatment unit to the next. This drawing may be a sketch that shows, conceptually, what system will be used to treat wastewater so that it will meet the effluent quality requirements of the general permit. Identify all treatment technologies that will be employed at the facility.

Item 15: TOPOGRAPHIC MAP

The topographic map should be a copy of the USGS 7.5 minute quadrangle that encompasses the facility and the surrounding property for at least 1/2 mile in all directions. Maps other than the USGS quadrangle may be substituted if they provide at least the same level of detail. The required information should be clearly marked on the map. Information regarding public water supplies and private wells may be obtained from local health department officials.

Item 16: CENTRAL WASTEWATER TREATMENT SYSTEM

The owner should investigate the possibility of discharging to a central wastewater treatment system prior to requesting coverage under this general permit. If a central wastewater treatment system is in the vicinity, but access for this discharge is denied, make that statement in the space provided.

Item s 17 and 18: PERMIT/POLLUTION COMPLAINT NUMBERS If the facility has already been permitted to discharge and has a discharge permit number, or if the facility is responsible for the release and DEQ has issued a Pollution Complaint Number for the site, fill in the appropriate blanks with the permit or pollution complaint number. In some instances the applicant should fill in both questions; in others only one question may apply.

Item 19: HAZARDOUS WASTE STATEMENT

Indicate "yes" or "no" in the blanks provided.

Item 20. CERTIFICATION

State statutes provide for severe penalties for submitting false information on this registration statement. State regulations require that the registration statement be signed as follows:

- a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means; (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
- b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
- c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official.

Exhibit A

Emergency Response Report

Attachments

1)	USGS Maps	Pg 35
•	Site Diagram	
•	Treatment System Diagram	
•	Site Material Safety Data Sheets (MSDS)	



KCR Joint Venture

11654 Plaza America Drive, #177 Reston VA, 20190

Emergency Response Report

IR# 2011-N1934 Corbalis to Fox Mill Tunneling Operation Oil Discharge

12025T New Dominion Parkway Reston, VA 20190

Submitted to:

VA DEQ, Northern Regional Office

Date: March 1st, 2011

Signature Page

This report was prepared by:	
James R. Land	James R. Kassouf
Signed	Name (Printed)
Kassouf Co & Clinton Road Joint Venture	March, 1 st , 2011
Company	Date
11654 Plaza America Drive # 177,	Reston, Virginia, 20190
Address, City, State, Zip	
(216) 409 – 7509	(216) 395 - 0101
Phone Number	Fax Number

Executive Summary

KCR/Joint Venture is under contract to perform underground utility installation for Fairfax Water along Route 7100 in Fairfax County (Corbalis to Fox Mill Tunneling Operation). This project involves underground mining and excavation activities at a depth of approximately 45 feet for 8500 linear feet. The project is anticipated to last 18 months. The tunneling project involves the use of heavy equipment that utilizes hydraulic oils and petroleum lubricants during daily operation. The tunneling or boring equipment requires cooling during operation. Cooling is achieved by providing either city/county water or recycled water as the coolant. The tunneling operation also encounters spring and ground water. Together, these waters are pumped to the surface for discharge.

During initial start operations and fine tuning of equipment, hydraulic oils were released into the tunnel water and pumped to the surface where it was discharged through the silt/sediment control devices to an unnamed tributary of Sugarland Run adjacent to the construction activities.

On January 19, 2011 the release was discovered. KCR/Joint Venture, in response to Fairfax County Fire & Rescue and the VA DEQ, undertook measures to clean-up petroleum released from the site as well as implementing steps to prevent further release of petroleum product from the site. These activities are ongoing until at the present time and will continue until the site is discharging in accordance with a VPDES permit and all petroleum impacted soils have been excavated as detailed below.

KCR is implementing an on-site treatment system to eliminate petroleum from the discharge water. Initial steps include the addition of a sump in the excavation, installation of a sediment control box and an oil/water separator to prevent to discharge of free product. A system of bag filters and activated carbon filtration is currently being evaluated. A VPDES General Permit Resignation Statement is being submitted concurrent with this emergency response report. Initial water analysis of the discharge water from the oil/water separator is attached.

Upon implementation of a VPDES permit, KCR/Joint Venture will excavate petroleum impacted soils and gravel at the silt/sediment outfall. These impacted soils will be transported offsite for soil recycling at RECO Biotechnology in Richmond, VA. An initial composite soil sample for disposal has been analyzed for acceptance parameters into the disposal facility. The results are attached. Post-excavation soil analysis will be collected and analyzed to ensure that petroleum impacted soils have been properly removed.

A follow up report will be submitted documenting the final clean-up once the steps reference above have been completed.

General Site Information

This project site is located at the follow GPS coordinates:

N 38°57'32.1 W 077°22'10.8

The site is east of Route 7100 Northbound between the W&OD Trail and New Dominion Parkway. The Project site consists of a fenced gravel yard with office trails, storage containers, equipment lay down yard and the tunnel excavation opening.

Please see attached site diagram and topological maps.

Release Information and Initial Abatement Measures

Release Description

Hydraulic oil was released into the tunnel water during the initial start up and fine tuning of equipment. Tunnel water is defined here are the comingling of nature spring water, ground water and city water (used for equipment cleaning). Tunnel water, impacting with hydraulic oil, was pumped to the surface and discharged through the silt and sediment control devices and subsequently into an unnamed tributary of Sugarland Run. An estimated 40-60 gallons of petroleum product is suspected to have been released during the initial release. The quantity of oil release is based upon the estimated amount of oil used above and beyond the initial quantity necessary for equipment start up.

Ongoing operation of heavy equipment that utilizes hydraulic oil and petroleum lubricants in the tunneling operation creates a potential for ongoing/future contamination of tunnel water. This is due to cooling of equipment, general maintenance and incidentally failure of hydraulic lines/equipment during normal operation.

Initial Abatement Measures:

The following actions have been implemented during initial abatement:

- 1. Mobilization of a vacuum truck to collect free product observed in tributary and around silt/sediment control devices.
- 2. Installation of approximately 8 layers of absorbent booms/sweep along the unnamed tributary. Installation of absorbent pads along silt and sediment control devices where free product has been observed. Currently these absorbents are checked, maintained and replaced as necessary on a bi-weekly basis.
- 3. Removal and replacement of initial silt bags and straw bales impacted with petroleum.
- 4. Installation of a sump inside the excavation/tunnel to facilitate the collection of free product prior to pumping tunnel water to the surface.
- 5. Installation of a sediment box (roughly 4,000 gallon) and an oil/water separator to collect free product in tunnel water after it is pumped to the surface.
- 6. Continued monitoring of oil/water separator and sediment box for the present of free product and utilization of a vacuum truck to collect and dispose of free product as necessary.
- 7. Copies of disposal manifests are attached.
- 8. KCR personnel working in the tunnel/excavation are receiving ongoing awareness training regarding the safe and clean operation and maintenance of equipment, specifically with regarding to the handling of petroleum products in the excavation.

Continuing and Plan Activities

Water Management

KCR/Joint is submitting a VPDES General Permit Registration Statement to receive a general discharge permit for the tunnel water. The Registration Statement is being submitted concurrent with this emergency response report. In addition to sump, sediment box and oil/water separator already installed, KCR is evaluating a system of bag filters and activated carbon filtration vessels to meet the discharge requirements of the VPDES permit. Initial water sample results are attached. The water sample was taken from the discharge tank on the oil/water separator and is representative of water for discharge post sump, post sediment box, post oil water separator, pre bag filters.

Once the water treatment system is fully installed, the system will be monitored in accordance with the requirement of the VPDES permit.

Soil Management

Once the water discharge system under a VPDES permit is installed at the site, the soils, gravel, and straw associated with the original silt/sediment control devices will be excavated, transported and disposed of at an offsite soil recycling facility for petroleum impacted soils.

Post excavation sampling will be conducted to confirm removal of the petroleum contamination in the affected area.

The site will be restored to the existing grades with clean fill and stone. The silt/sediment control devices will be restored as deemed necessary in light of the treatment system and the requirements of Fairfax County.

The absorbent booms and pads around the point of discharge and downstream will be maintained and replaced as necessary until the above water and soil management tasks have been completed. A follow up report documenting completion of these tasks will be submitted to the VA DEQ upon completion.

Attachments

Attached please find the following documents:

- 1. Water Analysis Certificates
- 2. Composition Soil (for disposal) Analysis Certificates
- 3. Petroleum impacted water and debris Disposal Manifests

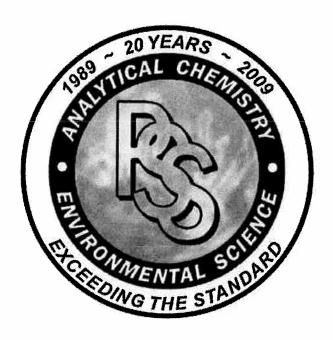
Analytical Report for

Atlas Environmental Services, LLC Certificate of Analysis No.: 11021711

Project Manager: Paul Stoecklin

Project Name: KCR

Project Location: 7100 Herndon, VA



February 24, 2011
Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770

Fax: (410) 788-8723

6630 BALTIMORE NATIONAL PIKE ROUTE 40 WEST BALTIMORE, MD 21228 410-747-8770 800-932-9047

SEPARATION SCIENCE, INC.



February 24, 2011

Paul Stoecklin Atlas Environmental Services, LLC P.O. Box 1490

Lorton, VA 22199-1490

Reference: PSS Work Order No: 11021711

Project Name: KCR

Project Location: 7100 Herndon, VA

Dear Paul Stoecklin:

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered 11021711.

All work reported herein has been performed in accordance with current NELAP standards referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on March 24, 2011. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any que:

Dan Pruenal

Laboratory Manager



Sample Summary

Client Name: Atlas Environmental Services, LLC

Project Name: KCR

Project ID: N/A

Work Order Number: 11021711

The following samples were received under chain of custody by Phase Separation Science (PSS) on 02/17/2011 at 01:15 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
11021711-001	001	WATER	02/16/2011 15:00
11021711-002	002	WATER	02/16/2011 15:00
11021711-003	003	SOIL	02/16/2011 15:00

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

- The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

Standard Flags/Abbreviations:

- B A target analyte or commone laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the LOD.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect.

 An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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Final 1.000. WO#: 11021711

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Client Name: Atlas Environmental Services, LLC

Project Name: KCR

Project ID: N/A Work Order Number: 11021711

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

SW-846 9078

03/01/2011 KCR JV Page 15 of 72

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OFFICES: 6630 BALTIMORE NATIONAL PIKE ROUTE 40 WEST BALTIMORE, MD 21228 410-747-8770 800-932-9047 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 11021711

Atlas Environmental Services, LLC, Lorton, VA

February 24, 2011

Project Name: KCR

Organics)

Project Location: 7100 Herndon, VA

Sample ID: 001 Matrix: WATER			Sampled: Received:				e ID: 1102171	11-001
Purgeable Aromatics			W-846 8021			Preparation Met	hod: 5030B	
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	1		1	02/18/11	02/18/11 15:5	57 1035
Toluene	ND	ug/L	1		1	02/18/11	02/18/11 15:5	57 1035
Ethylbenzene	ND	ug/L	1		1	02/18/11	02/18/11 15:5	57 1035
m,p-Xylenes	ND	ug/L	2		1	02/18/11	02/18/11 15:5	57 1035
o-Xylene	ND	ug/L	1		1	02/18/11	02/18/11 15:5	57 1035
Methyl-t-butyl ether	ND	ug/L	1		1	02/18/11	02/18/11 15:5	57 1035
Naphthalene	2	ug/L	1		1	02/18/11	02/18/11 15:5	7 1035
Sample ID: 002 Matrix: WATER			Sampled: Received:				e ID: 110217′	11-002
Diesel/Oil Range Organics	Analytica	I Method: S	W-846 8015	С		Preparation Met	hod: 3510C	
DF/HF - No. 2/diesel fuel and heavier i	fuel/oil pattems obs Result	erved in sam Units	ole. RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO/ORO (Diesel/Oil Range	8	mg/L	1	DF	10	02/21/11	02/21/11 14:3	32 1040

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 11021711

Atlas Environmental Services, LLC, Lorton, VA

February 24, 2011

Project Name: KCR

Project Location: 7100 Herndon, VA

Sample ID: 003 Matrix: SOIL		Date/Time S Date/Time R					e ID: 11021711-003 olids: 65
Total Metals	Analytica	l Method: SW	/-846 6020	Α		Preparation Met	nod: 3050B
	Result	Units	RL	Flag	Dil	Prepared	Analyzed Analyst
Arsenic	2.5	mg/kg	0.6		1	02/17/11	02/18/11 15:50 1033
Barium	82	mg/kg	2.9		1	02/17/11	02/18/11 15:50 1033
Cadmium	ND	mg/kg	2.9		1	02/17/11	02/18/11 15:50 1033
Chromium	34	mg/kg	2.9		1	02/17/11	02/18/11 15:50 1033
Lead	9.4	mg/kg	2.9		1	02/17/11	02/18/11 15:50 1033
Mercury	ND	mg/kg	0.12		1	02/17/11	02/18/11 15:50 1033
Selenium	ND	mg/kg	2.9		1	02/17/11	02/18/11 15:50 1033
Silver	ND	mg/kg	2.9		1_	02/17/11	02/18/11 15:50 1033
Total Petroleum Hydrocarbons - DRO		I Method: SW		С		Preparation Met	nod: 3550
DITTIN - IVO. ZIUIGSGI IUGI GIIU IIGGVIGI IUGV	Oir panerris ouse			101			
	Result	Units	RL	Flag	Dil	Prepared	Analyzed Analyst
TPH-DRO (Diesel Range Organics)	Result 300	Units mg/kg	<u>RL</u> 6	Flag DF	1		Analyzed Analyst 02/21/11 19:27 1040
TPH-DRO (Diesel Range Organics) Purgeable Aromatics	300	·····	6	DF			02/21/11 19:27 1040
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Purgeable Aromatics	300 Analytica Result	mg/kg I Method: SW Units	6 /-846 8021E RL	DF 3	1 Dil	02/21/11 Preparation Meth	02/21/11 19:27 1040 nod: 5030 Analyzed Analyst
Purgeable Aromatics Benzene	300 Analytica Result ND	mg/kg I Method: SW Units ug/kg	6 /-846 8021E RL 2	DF 3	Dil 1	02/21/11 Preparation Methodology Prepared 02/17/11	02/21/11 19:27 1040 nod: 5030 Analyzed Analyst 02/17/11 16:27 1035
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SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.comemail: info@phaseonline.com

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chein's grees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.

Final 1.000. WO#: 11021711



Phase Separation Science, Inc

Sample Receipt Checklist

Work Order#	11021711			Received By	Sara Dorr
Client Name	Atlas Environmenta	l Services, L	LC	Date Received	02/17/2011 01:15:00 PM
Project Name	KCR			Delivered By	Dial Courier
Project Number	N/A		,	Tracking No	Not Applicable
Disposal Date	03/24/2011			Logged in By	Sara Dorr
Shipping Contai	ner(s)				
No. of Coolers	1			Ice	Present
Custody Seal(s Seal(s) Signed	•		N/A N/A	Temp (deg C) Temp Blank Pres	
Documentation				Sampler Name MD DW Cert. No.	Paul Stoecklin N/A
COC agrees wi Chain of Custoo	th sample labels? dy		Yes Yes	WID DVV CER, NO.	IVA
Sample Contain	ar			Custody Seal(s) I	ntact? Not Applicable
	Specified Analysis?		Yes Yes	Seal(s) Signed / [Dated Not Applicable
Labeled and La	ibels Legible?		Yes		
	mples Received 3			Total No. of Conta	ainers Received 5
Preservation			(pH<2)	N/A	
Metals Cyanides			(pH>12)		
Sulfide			(pH>9)	N/A	
TOC, COD, Ph	enols		(ph<2)	N/A	
TOX, TKN, NH	3, Total Phos		(pH<2)	N/A	
	OA Vials Rovd Prese	•	(pH<2)	Yes	
	ave zero headspace			Yes	
Comments: (Ar	ny "No" response	must be d	etailed i	in the comments	section below.)
documentation of should be analyze preservation shall hand delivered on	any client notification a d as soon as possible, p be considered acceptal	s well as client preferably in th ble when receivallected may no	instruction in the field at the field at a term of the field at a term of the field in the field	ns. Samples for pH, che time of sampling. Separature above freezing criteria but shall be	number) below as well as nlorine and dissolved oxygen amples which require thermal ng to 6°C. Samples that are considered acceptable if there
Samples Inspected/	Checklist Completed By:	Save Don	Sara Dorr	Date:	02/17/2011
P	M Review and Approval:	5W/s	imon Crisp		02/17/2011

03/01/2011 KCR JV Page 19 of 72

Page 8 of 8

Final 1.000. WO#: 11021711



N		1.00					42000	Diesel and Water for Recycling
1				odo po Elektrok kaj e Daglesko Alia	010	030		Glycols for Recycling
Date:			Docume	nt# A	ATA	שטע		Kerosene and Water for Recycling
	/Shipper:	4.5.5	11				3	Mineral Oil for Recycling
Ko	2	Texa	JT / FATY	Contract of	1135375	Section!		Oil for Recycling
us rpa ii		A TEVADO					1	Oil, Water for Recycling
Address:		0						Wastewaters
116	34	Put	IZA ALI	ing - F	h "/	77	Non RC	RA/Non DOT Regulated Material, Solids
City			1 10 40 40	States	Złp:		Line	Material
City/20	STAV	V 23540		Status	Zip:	190	100	ASSETS
Contacts	W. 15, Oct. 10	153 S. S.		Phone			1823.418	Debris, C & D related
Contact:	· For	4		216	-409-	34/6		Debria, Petroleum Impact, Specify:
Site	CARLES OF				MEX. or skills	-//-0	18/0/01/2008	Drums, Empty
C	STRULT		h~					Piliars for Recycling, Petroleum Impacted:
<u> </u>	STATE OF A STATE OF	1.45 (4)		A TOTAL OF THE STATE OF			N. S. Carlot	Shidge, Industrial
7	7/11/	. 1	r wes	300 7			12.5-24.12.13.14 12.01.24.15.14	Shidge, Oil
2	1100				1	THE THE RESERVE	SWITTERS	
Me.	****			State	Zip:		1/4/2013	Sludge, Tank Boitom
Ces	1646	<i>D</i> 1	den er stigt in	The second secon	a State of			Soil, Petroleum Impacted, Specify:
T I MINO POST	er Mu, Ai	MIL	rs En	vancory	CHIN C	July 1	Encod.	Soll Oil
us epa il		4.65 V. 17.		Phone: 7	U3.337	-100	12,733,733	Sorbents, Diesel Fuel
	er No. 2: -	ATTE	,	115 - 115				Sorbents, Off
US EPA'II	D#1			Phone:			1300	Other
Facility:		a militar					DOT Re	gulated / Non, RCRA Materials - Liquids
1	nvironment	al Service	s, LLC, 10139 G	les Run Road,	Lorton, Virg	dnia 22079	Line	Material
Other:	10 miles	1 - N. L.		1 d 4.7 h	ALC: NOTE:			Gasoline Mixture 3, UN1203, PGII ERG #128 for Recycling
2 St 1					1 11 11 11		100 PM	Gasoline 3, UN1203, PGH ERG #128 for Recycling
and the same	Andre Carrie	4.300	Hadisə işələr	1 242	Taliante.	V-site M	1 1 5 A 17 B	Fuel Oll (No. 1,2,4,5,or 6) 3, NA1993, PGII ERG #128
Additional	Informatic	on:			AND THE OWNER OF THE OWNER OWNE		1175.733	Diesel Fuel 3, 1993 PGIII ERG #128
							10000000000000000000000000000000000000	Fuel, Aviation, Turbine Engine 3, UN1863, PGII ERG #128
i gi i		24 Hn	ır Emergency F	hone Number			3.28 S. S.	Kerosene, 3, UN 1223, PGIII, ERG #128
19 T. J.			703-339-97					Other
4-27/274	0		HI SACTING TO STATE	MANAGE STREET	· [五章 禁蚊!		NAME OF THE OWNER.	
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6	5. 22.1	and a		or we have a				
as defin	ned by RC ed, packed	RA. I he	reby declare the	hat the conten	its of this	consignment	are fully an	t subject to federal regulations for disposal of Hazardous Was d accurately described above by proper shipping name and a ansport by highway according to applicable federal, state, at
local re					936 - 115	Signatura	Felin	
local re Type / Prin	nt Name:	ole 7			THE RESERVE OF THE PARTY OF THE	WIND AND STREET		
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Line

SHIPPING DOCUMENT

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids
Line Material



SHIPPING DOCUMENT

	Env	iron	mental	Service	s, LL	.C	Non RC	RA/Non DOT R	egulated Material, Liquids
				Lorton, VA	•		Line	Material	
				Pax: 703-339		1.		The state of the s	ed Water / Commercial Contact Water
	i de de de de de la composición de la c La composición de la				, 링크 프로 12: 구조 12:10			Diesel and Water	for Recycling
	1/201	2011	recovered incl.		nne	913		Glycols for Recycl	
Date.	1_1		Docum	ent# P				Kerosene and Wat	
Generato	f / Shippe	20	Tours	Meder				Mineral Oil for Re	ecycling
			JUINI	WANNE				Oil for Recycling	
US EPA					- Tremmer			Oil, Water for Rec	yeling
Address	100	14	a done	rich D	him	177	g last LL.	Wastewaters	
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City			0.75	State	Zipi	190	Line	Material	
THE REAL PROPERTY AND ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY AND ADDRESS OF THE PERTY ADDR	STUN			1 7	120	770		Ash, Fly	
Cohigen	. E	: 4.		Phone:		A 47	-	Debris, C & D rela	A STATE OF THE STA
110		oks			-			Debris, Petroleum	Impact, Specify:
Site	-1	1.		TE	9	C 591000		Drams, Empty	
	struc	10	<u>~ 3/</u>	12	-11 to 18			THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	ng, Petroleum Impacted:
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_//	V	146	n ye	1000	<u>87</u>	•	- 2	Studge, Oli	
City:	tans	11	1.	Sar 1	Zip;			Sludge, Tank Botte	
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US EPA I				Phones	AT DEC			Sorbents, Diesel F	The Atlanta Control of the Control o
THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	ter No. 2:			- iz-				Sorbents, Oil	Hydraw's U
US EPA I	D#1		11 27 11 11 12	Phones			40.55	Other	
Facility:	Invironmen	tol Sarries	- TIC 10130 C	iles Run Road, l	orden Vie	-inia 22070			CRA Materials - Liquids
Other		nan ises vacc	a, Lax., 10135 C	race mua monu,	Lurion, vic	Ectiff 55013	Line	Material	
C Other	100	25.		x	. 4 (R)	in the second	1000	THE RESERVE OF THE PERSON NAMED IN	3, UN1203, PGII ERG #128 for Recycling
=	2897	2 1100	3 384			0.5 May 2011		THE PERSON NAMED IN COLUMN TWO	3, PGII ERG #128 for Recycling
Additon	l Informat		Adams State		-		100	Street, or other Designation of the last o	,5,or 6) 3, NA1993, PGH ERG #128
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			703-339-9	770	a vitta process et oper			Other	
Line	Conta	iners	Total	Unit	Quantity	Quantity	Quantity		
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as defi classifj	ned by RC	CRA. I he d, marke	ereby declare	hat the conten	ts of this	consignment	are fully an	d accurately describ	regulations for disposal of Hazardous Was sed above by proper shipping name and a r according to applicable federal, state, a
Type / P	nt Name:	LE	6			Signature?	Series 199	THE PERSON NAMED IN	Month / Day / Year
M	MIN	rul	TIME				Market N	1	
		nowledg	entent of Rec	elpt of Materi	als	11	1	11 .	
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type / PM	ur tammei					Signature:	100 A		Month / Day / Year
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Facility (Mer or	Operator	r: Certification	n of receipt of	material	la covered h	Ahla makie	hi avenuel a Judan	in Discrepancy above.
Type / Pot	Name				3/01/2011	Married Control of the last	77 17	CAMPI DE CATEO	Month / Day / Year
VA	20 >	Mich	KL12	U-	oru irzu i I	7-7	1	W I	1/20/201)
		A STATE OF THE PARTY OF THE PAR				/			1

Environmental Services, LLC

1. 1. 1.	10139 C	iles Ru	n Road, L	orton, VA	22079		- FR 2142	Diesel and Water for Recycling
	Phone: 7			x: 703-339			18.1 A. 1	Glycols for Recycling
Date: 1	Izili	Do	cument	# A 0	1082	36		Kerosene and Water for Recycling
Generator/				1477-161-	+ 100			Mineral Oil for Recycling
F	CI	PIT	/	STATE OF THE STATE		727	1.00	Oil for Recycling
JS EPA II	-		V					Oil, Water for Recycling
ddress;	1.70	00 10 5	15 to 10			- 75		Wastewaters
					a albai	機能した場合	Non RC	RA/ Non DOT Regulated Materials, Solids
lity:		1400	State:		Zip:		Line	Material
44.	7.3				7			Ash, Fly
Contact:	W	9,754		Phone:	TO SECURE		基3.4 °C5	Debris, C&D related
11	46)) 2. Europages		Prayabil	a Menag			A STATE OF THE PARTY OF THE PAR	Debris, Petroleum Impact, Specify:
lie				FARET		Company	- Carlotte	Drums, Empty
Con	RT	DITE	+2.	S. Tell store	la avid	werater of		Filters for Recycling, Petroleum Impacted:
44		100			E-15 (4)		PERMIT	Sludge, Industrial
71	2100	Wile	S To	II Kd	100 July 2000 100 July 2000	E 118		Studge, Oil
lity;	\$ 15 A STATE	ART SHOP	State		Zip:	(12)清雪		Sjudge, Tank Bottom
erios. Elestria	An Asserta	a katani		KALAMAN.	A TO See Se		THE CANADA	Soil, Petroleum Impacted, Specify:
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JS EPA II		.,		Phone:		1- NO. 18	Salva and A	Sorbents, Diesel Puel
ransporter	No. 2:	90 TV			SJ4 10 3	F/L 550 (11)	宏 地質質	Sorbents, Oil
JS EPA II			A STATE	Phone:				Other
acility:	A 1 100 L	Name of		775	Chicana.	a weed and	DOT Re	gulated/Non RCRA Materials-Liquids
Batlas Environmental Services, LLC, 10139 Giles Run Road, Lorton, Virginia						nia 22079	Line	Malerial
CÎ Other:						. 5 4	10000000000000000000000000000000000000	Gasoline Mixture 3,UN1203,PGII ERO #128 for Recycling
						18014	7 7 7 7 7	Gasoline 3,UN1203,PGII ERG #128 for Recycling
9.00				and the last of the			4 15 44(6)	Fuel Oil (No.1,2,4,5,or 6) 3,NA1993,PGII ERG #128
Additional Information:						211(24, 33, 11)		Diesel Puel 3,1993 PGHI BRG #128
Acquitonal Informatical:								Fuel, Aviation, Turbine Engine 3, UN1863, Poli ERO #128
16	in ceresio	24 11		Phone Numbe	- 7	#41. B. S. H	1379	Kerosene, 3, UN 1223,PGIII, ERG #128
and trans		24 HOU	703-339-9	770		1 to down		Other
Men's	Conti	1000	Total	Unit	Quantity	Quanity	Quantity	
Line	No.	Туре	Quantity	WL/Vol.	Liquid	Solid	Sludge	Notes
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4		2 2500	Spirit Com	CONTRACTOR N	V Page			
5		3 300		1877.4	-	70 57.54		
		100	35 30	No. of the last	1000000	1,000,000,000		
	'a Certifica	tion: I o	rtify the m	aterials descri	ibed abov	e on this doc	ument are not	subject to federal regulations for disposal of Hazardous W
6 Senerator		I bereby	declare the	the content	ts of this c	onsignment a	re fully and ac	curately described above by proper shipping name and a
Generator es defined	by RCRA.		d labeled, a	nd are in all	respects li	lition for trans	sport by highway according to applicable federal, state, an	
Generator es defined	by RCRA.	arked, an		135.0	120	- 11		I DESCRIPTION OF THE PROPERTY
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SHIPPING DOCUMENT



SHIPPING DOCUMENT

Non RCRA/Non DOT Regulated Material, Liquids

	10	120 0:1-	. n n. i	T	1000		Line	Material
	Dh	139 Ulk	3 KUN KOAU, 1 220 0770 1	Lorton, VA 2 Pax: 703-339	0771			Petroleum Impacted Water / Commercial Contact Water
- 13 N	ı f"	one. 703	-337-7110 1	.ax. /03-339	77//1			Diesel and Water for Recycling
	اللـ	1.00			000	014	300000000000000000000000000000000000000	Glycols for Recycling
Date!	1		Docume	nt# A	nna	arr	100 Meetings	Kerosene and Water for Recycling
Generator	V Shipper	0 [THE PARTY OF			Mineral Oil for Recycling
	$-c_{I}$	6.1	unt U	enrus				Oil for Recycling
US EPA II	N#1							Oil, Water for Recycling
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							Non DC	RA/Non DOT Regulated Material, Solids
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City.	v E	C14		States	Zipi	. 2	Add O	XON IT X
Contact:	H V V Q 100							Debris, C & D related
Contacti	Ellia va			Phone:			16 (S. 1916)	The state of the s
~~~	No Hall	100				131 - 154 ATE		Debris, Petroleum Impaci, Specify:
She !	ME	•					52 33 20 E	Drums, Empty
D. Control of the Con	71 I	1 /				7.04 25.00 S.30		Filters for Recycling, Petroleum Impacted:
Address:<	$\gamma_{II}$	$\Lambda II$	IV. T	C 11	7			Studge, Industrial
1	110	UL	<u>uuu</u>	2 111				Sludge, Oil
City:	س در	10		States	Zipı			Sludge, Tank Boltom
U	م الرجيد	<b>,</b> ,		2. 是在在1000mm	15000	Section 1		Soil, Petroleum Impacted, Specify:
Transport	er No. 1:	MIL	1D c	NOVIKO	NAC	U100	2	Soil, Oil
US EPA II	D#:	DESCRIPTION		Phones			111 110 50 110 5	Sorbents, Diesel Fuel
Transport	er No. 2:				V	10.0	18.8355	Sorbenta, Oll
US EPA II	D#:	132.77		Phone:		THE PARTY	28.000.700	Oher
Facility:	711 453		Stable of a			13,000 E.Q	DOT Re	gulated / Non, RCRA Materials - Liquids
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Other:					4		- C. W. F W. C.	Gasoline Mixture 3, UN1203, PGH ERG #128 for Recycling
							3001 3050	Gasoline 3, UN1203, PGH ERG #128 for Recycling
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	Conta	iners	Total	Unit	Quantity	Quantity	Quantity	
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Genera	ior's Cent	ncation:	I centify the ii	iaterials descri	ded above	on this docu	iment are no	t subject to federal regulations for disposal of Hazardous Waste d accurately described above by proper shipping name and are
								ansport by highway according to applicable federal, state, and
local re	gulations.				· respects		77	anspire by ingitively according to applicable terrial, same, and
Type / Pri	nt Name:	200		0 N V	12,000	Signatures	1/	Mosth/Day Year
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Type Pri	心性	A	V	V		Signature:	11	Month/Day/Rear
		et species and the	J .		_	$\sim$		
		nowledg	ement of Rec	elpt of Materi	als			
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and South Con-	iste egel "villigt dal • viete = •							
Discrepan	cy Indicati	on Space						
						/		
Facility C	mne or	Operato	rt Certificatio	n of receipt o	f material	s coveration	the manife	ent except as noted in Discrepancy above.
Type / Pris			7		mit as The	Signatury:	IXIT	Month/Day/Year
	TANL	TAGE	yu!		03/01/	CIL	Valend	(1) 1124111
The tweety at the	To the last of the	174	Carry North and The Co	e i gregorio a su mano en estado e				



10139 Giles Run Road, Lorton, VA 22079

	Dhone: 7	03-339-9770 F	ov. 703.330	0771	•		Petroleum Impact	ed Water / Commercial Contact Water	
	Thome.	03-339-9110 I	مريد-رين م	<i>7</i> , , ,	4		Diesel and Water	or Recycling	
	1. 1	,		000	909		Glycols for Recycl	lng .	
Date:	1/201	Docume	nt# 🗛	UUJ	<b>3</b> U3		Kerosene and Wat	er for Recycling	
	/ Shipper:	,		S-14		2 4	Mineral Oil for Re	ecycling	
10		.T VENTR	e , ,			(VEn: 7)	Oil for Recycling		
US EPA ID	Mr.		THE STATE	30	5 5 6 5 5 1 W		Oil, Water for Rec	yeling	
Adda	19.37		1		1 E-CH2/12	direct project	Wastewaters		
110	SOF (	Lines Arm	notes LA		1.1	Non RC	RA/Non DOT R	egulated Material, Solids	
City				Zip:	100000000000000000000000000000000000000	Line	Material		
	STON		State	Z.F.			Ash, Fly		
Contact:	3/6	- 10 A 10	Phone:	100 mg	11000 B S II	100	Debris, C & D rela	iled	
Contacti			Luone			1000	Debris, Petroleum	30 T C C C C C C C C C C C C C C C C C C	
en.						NE E	Drams, Empty		
Site	NSTP-LI	(			a 1	100	THE RESIDENCE OF THE PARTY OF T	ng, Petroleum Impacted:	
	E OC	120				34.004	Shidge, Industrial		
Address:	W)d				31	144000			
105	100				195,319	1	Shudge, Oil		
Res			State	Zip:			Sludge, Tank Bott		
KES	ron		The second secon		<del> </del>		Soll, Petroleum In	pacted, Specify:	
Transporte	er No. 1: 47	THEN! S	N.			1	Soll, Oil		
US EPA ID		31/1 1 King 2	Phones	i dabi di			Sorbents, Diesel P		
Transporte	er No. 2;			6)	18503.53		Sorbents, Oli		
US RPA II	) #i		Phone:			10.0	Other		
Facility:	7 day = 1 d d	and the second	ent man a		- 1100 No.	DOT Re	gulated / Non, R	CRA Materials - Liquids	
Atlas Er	nvironmental Ser	rices, LLC, 10139 G	iles Run Road, l	Lorton, Vin	ginia 22079	Line	Material	Part Control (1995) Part (1995) General Carlos (1995) Carlos (1995)	
Ofher;			18				Gasoline Mixture	3, UN1203, PGH ERG #128 for Recycling	
		9					Gasoline 3, UN1203, PGII ERG #128 for Recycling		
e a	6000.00					l ———		1,5,or 6) 3, NA1993, PGU ERG #128	
Additional	Information:	Y 32 32 3	0 = V4+1 4			i		PGIII ERG #128	
	THE RESERVE THE PARTY OF THE PA							rbine Engine 3, UN1863, PGII ERG #128	
						10000		223, PGIII, ERG #128	
		Hour Emergency I 703-339-9				25/2000	Other		
	pi-reput	700-007-2					TO MANAGEMENT OF THE PARTY OF T		
Line	Containers	Total	Unit	Quantity	Quantity	Quantity		Notes	
Line	No. Ty	e Quantity	Wt. / Vol.	Liquid	Solid	Sludge			
1	OOL B	100/	P	-	2				
2		Walter State of the Control of the C	2 (21)						
3			NI. IT X	3	11140.412				
.4		12 12 100	a 46						
5	380000185 C		THE STATE	10-01	A11.034.04				
6		A LATERY	100000000000000000000000000000000000000	S 7723					
as defin	ned by RCRA.	hereby declare t	hat the conten	ts of this	consignment	are fully an	d accurately descri	regulations for disposal of Hazardous Wast bed above by proper shipping name and an y according to applicable federal, state, and	
	nt Name:	T. Cum	1.0	Seine Karlis Norman	Signature	Month / Day / Year			
		edgement of Rec	eipt of Materi	als					
Type / Pri	ni ditine:	T. Cum	es de la company	e e seriej Suste a As	Signature:			Month / Day / Year	
		edgement of Rec		als					
Type/Prh		1		Control of the contro	Signature:			Month / Day / Year	
Discrepan	cy Indication Sp	ace			$\bigcap$	$\mathcal{A}$			
Pacinity (	wher out her	ator: Certification	n of receipt o	f materia	ls covered M	Vills mont	est excest as noted	in Discrepancy above.	
Type/Pro	n/Nama	3 8	CTION THE	17 10 10 10 10 10	Supplier		11.	Month / Day / Year	
TALL SPECIAL - 03/01/20 100						1 24 C		12611	

SHIPPING DOCUMENT

Non RCRA/Non DOT Regulated Material, Liquids

Material

# Environmental Services, LLC

	10	120 011	. D D	T	30000		Line	Meterial	
	DI.	139 GHE	s Kun Koad,	Lorion, VA 2 Fax: 703-339	22079			Petroleum Impacted Water / Commercial Contact Wat	er
	, 13	186	-339-9770	rax: /03-339	-9//1		THE STATE OF THE	Diesel and Water for Recycling	
	יין ו	WT		· ·	000	040		Glycols for Recycling	
Date.	203		Docume	mt# A	UUS	912	121	Kerosene and Water for Recycling	
	Linhper	7			90.751.50		1	Mineral Oil for Recycling	
Ceneral	C	1	16	MIST					
		0	iri oc	110.0			1	Oll for Recycling	
US EPA I						erene Erene		Oil, Water for Recycling	
Address:	fi	ž.	2 =	1. 1.733	1 1	작성 저 별기		Wastewaters	
				- 45 - 75	M. February	S Park	Non RC	RA/Non DOT Regulated Material, Solids	
City:				State:	Zip:		Line	Material	
			0.5					Ash, Fly	
Contact:		11		Phone:	SENNIS STATES			Debris, C & D related	1 - 100
			Assessment of the Control of					Debris, Petroleum Impact, Specify:	
Stye:			-	THE THEN	150		15000000	Drums, Empty	
Can	ST.	$\mathcal{X}$	<u>ا</u>				140	Filters for Recycling, Petroleum Impacted:	
Address:	. 1				100	folition (Figure	12.000	Sludge, Industrial	
	1001	DU	150	16	72 0	7. S. S. S. S.		Sludge, Oll	1-1-1
City				State	Zip:	er dingenie,	1	Sludge, Tank Bottom	
-1/	RSTU	ر ر	4.8	Statut	zap.	1. 14	The second	Soil, Petroleum Impacted, Specify:	
Fransport		ATC	as c	William.	MAG	U79.	-	Soll, Oil	
US EPA D	THE RESERVE OF THE PERSON NAMED IN	44.	-V	Phone:			-		
-			100	[Pnone:		A THE		Sorbents, Diesel Fuel	
Fransport	THE RESERVE TO SHARE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLU			72.		يتنسسر	1	Sorbents, Oli	
US EPA II Facility:	) #1	<i>-</i>	To the late.	Phones		فيسيدون		Other	
			11C 10100 C	lles Run Road, l		-ll- 22000	- Company	gulated / Non, RCRA Materials - Liquids	-
<u>-</u>	и и понщень	MI DEI AICES	, LLC, 10139 G	nes Kun Kond,	Lorion, Vir	grnin 22019	Line	Material	
Other:	11		i.		177		1.00	Gasoline Mixture 3, UN1203, PGII ERG #128 for Recy	cling
	5 5 5	a 31	II.				12 11 17 1	Gasoline 3, UN1203, PGH ERG #128 for Recycling	
.((21)	s i disaya	arna (ka	ega. L. Pro :	- 15 A		in the specific	1.17	Fuel Oil (No. 1,2,4,5,or 6) 3, NA1993, PGH ERG #128	
Additions	Informatic	on:		크겠어 늦 때,	1000		201	Diesel Fuel 3, 1993 PGIII ERG #128	
			보다면 함 5	5.5		- 4		Fuel, Aviation, Turbine Engine 3, UN1863, PGII ERG	F128
		24 Hou	r Emergency	Phone Number			15. 4	Kerosene, 3, UN 1223, PGIII, ERG #128	
		ar or restrict the second	703-339-9		10			Other	
		0.56	rays a, harrager,	Stell - Stell	1. 47.574 1. 20.7614				
Line	Contai		Total	Unit	Quantity		Quantity	Notes	
	No.	Туре	Quantity	Wt. / Vol.	Liquid	Solid	Sludge		
_ 1	3	196	60						
2								Lange to the state of the state	
3			山				ď		HELDON BOOK
4									
5	- F 12-	,							
6									
as defin	neti by RC	RA. I he	reby declare t	hat the conten	ts of this	consignment	are fully an	t subject to federal regulations for disposal of Hazardo d accurately described above by proper shipping nam ansport by highway according to applicable federal,	e and are
Type Pri	at Name:	7 6	تذر و	عصباه	ANI	Signature	7X-	Month/Day/Year	
Franspor	ter 1 Ack	nowledge		ipt of Materi			271		
lype / Pri	The second second	Vie				Signature:	-10	Mosth De Year	W. C. T. 113
Transpor	ter 2 Ackr	owledge	ment of Reco	ipt of Materi	als		0		
Type / Pris			19		C-re-tri	Signatures		Month/Day/Year	1
discrepance	cy Indicatio	n Space					1		
Taxille C	James and	Merator	Cartification	n of receipt a	motorial	c formand a	ALA	est except as hoted in Discrepancy above.	
VON / PA	it Name	Po. HOV	, con minute	- or receipt 0	. maci in		1		
		AC/	1111		03/01/201	70	XX 35 d	F   11000   1100	2
Type / Pyte	it Name	139an	10 *W/0=214	BELLINES HERE	03/01/201		250	Month/Day/Year	1

SHIPPING DOCUMENT

Non RCRA/Non DOT Regulated Material, Liquids

	Dhone 7	13-330	-0770 F	ax: 703-339	20771			Diesel and Water for Recycling
						4 -		Glycols for Recycling
Date:	111515	Do	cument	# A 0	1094	45		Kerosene and Water for Recycling
Generator/	Shipper:				S-2			Mineral Oil for Recycling
47	" K	PK						Oil for Recycling
US EPA ID	#.			<del></del>			1	Oil, Water for Recycling
Address:					**************************************		1 h	Wasiewalers
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							Non PCI	RA/ Non DOT Regulated Materials, Solids
<u></u>	····		Ctatas		17:		Line	Material
City:			State:		Zip:		Litte	
				T	<u></u>		<b> </b>	Ash, Fly
Contact:				Phone:			[ <u> </u>	Debris, C&D related
				<u> L</u>			<b> </b>	Debris, Petroleum Impact, Specify:
Site		<	7				[	Drums, Empty
7	78X		XO				<u> </u>	Filters for Recycling, Petroleum Impacted:
Address:	1						l L	Sludge, Industrial
	JUESCH	24	5					Sludge, Oil
City	,	1	State		Zip:			Sludge, Tank Bottom
42	Ţ.		· GAZ	-				Soil, Petroleum Impacted, Specify:
Transporter	No. 1: 1	1	तर रा	Y1800	num	42/4	1	Soil, Oil
US EPA ID		/ ,	V 771	Phone:				Sorbents, Diesel Fuel
Transporter				<u> </u>			1	Sorbents, Oil
US EPA ID				Phone:	· · · · · · · · · · · · · · · · · · ·		1	Other
Facility:							DOT Por	gulated/Non RCRA Materials-Liquids
	ronmental Sea	rvices, LI	.C, 10139 Gil	es Run Road, L	orton, Virgir	ia 22079	Line	Material
							Line	
Other:							<b>                                     </b>	Gasoline Mixture 3,UN1203,PGII ERG #128 for Recycling
								Gasoline 3,UN1203,PGII ERG #128 for Recycling
							]	Fuel Oil (No.1,2,4,5,or 6) 3,NA1993,PGII ERG #128
Additional I	Information:							Diesel Fuel 3,1993 PGIII ERG #128
							I L	Fuel, Aviation, Turbine Engine 3, UN1863, PGII ERG #128
	2	4 Hour	Emergency I	Phone Numbe	r			Kerosene, 3, UN 1223,PGIII, ERG #128
			703-339-9	770				Other
	Contain	2000	Total	Unit	Quantity	Quanity	Quantity	Г
Line	No.	Туре	Quantity	WL/Vol.	Liquid	Solid	Sludge	Notes
	No.			1	Liquid	30110	Studge	1.000
1	<del></del>	II.	27	SAC			<del> </del>	
2	0	PAGI	170	lbs	-			
3		<b></b>					<u> </u>	
4		1						
5				<u></u>				
6		1						
Generator'	s Certificat	ion: I c	ertify the ma	aterials descr	ibed abov	e on this doc	ument are not:	subject to federal regulations for disposal of Hazardous Waste
as defined l	by RCRA.	I hereby	declare tha	t the content	s of this co	nsignment a	are fully and ac	curately described above by proper shipping name and are
classified, p	acked, ma	rked, an	d labeled, a	nd are in all	respects in	proper con	dition for trans	port by highway according to applicable federal, state, and
local regula							//	
Type/Print I	Name:			-1 -0		Signature:	!/	Month Hay Year:
			Cyces					- 18911
	-	vledgem	ent of Rece	ipt of Materia	als			- Destablished
Type/Prior	Jame:		1			Signature	-0/	Month Day Year
	<u> </u>			ipt of Materia	. In			<u> </u>
		vieugem	ent of Rece	pi of materi	419	C'agatusa.		Month/ Day/ Year
Type/Print I	varne:					Signature:		Wolld Day Tea
Discrepanc	v Indicatio	n Snace	X .	***************************************		<u></u>		
rise chanc	2 mmeane	a spac	*/* I					
								7
		erator :	Certificatio	n of receipt o	f material		this manifest e	xeept as noted in Discrepancy area above.
Type/Print	iante:					Signature:	11111	Month/ Day/ Year 1
	Auc	270	EULL			1	11 10	
300					V		'	

SHIPPING DOCUMENT

Petroleum Impacted Water/Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Material

Line

03/01/2011 KCR JV Page 26 of 72

# ATLAS Environmental Services, LLC

					nonn			redoicum.	impacted water/confidential contact			
,	10139 Gi	les Rui	n Koad, L	orton, VA 2 x: 703-339	2079			Diesel and	Water for Recycling			
	riione. 70	10-332	-7//U 1'a			00			r Recycling			
Date: 7	FEB 11	Do	cument	# A 0	087	UU		Kerosene a	and Water for Recycling			
Generator/ S								Mineral Oi	il for Recycling			
C	J. 5 _	W/C	1001	Ven	tor	-		Oil for Rec	yeling			
US EPA ID	#;	- M						Oil, Water	for Recycling			
Address:	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>				**************************************		1	Wastewate	rs			
						1	Non RCI	RA/ Non	DOT Regulated Materials, So	olids		
City:		1	State:		Zip:		Line	Material				
								Ash, Fly				
Contact:				Phone:				Debris, C&	D related			
00///								Debris, Pet	troleum Impact, Specify:			
Site:	^ .							Drums, Em	apty			
710	a aft N	ll	11 7.11	nd Con	Atruck	the site		Filters for	Recycling, Petroleum Impacted:			
Address:	/ COC	ZZIVVC	21 /001	MA CAPIT	wave	W/YS/X-Y-		Sludge, Inc	dustrial			
/10010/J3.								Sludge, Oi				
City		1	State /		Zip:				ank Bottom			
DO:	SJOH		1	A- 1		1	1	The second secon	leum Impacted, Specify:			
Transporter				** 1st	Neas			Sail, Oil				
US EPA ID			STUED	Phone: -70-2		9771		Contract of the contract of th	Diesel Fuel			
Transporter		Kew	JAVEU	70	1771	1///	2	Sorbents, 6	Oil			
US EPA ID				Phone:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Other				
Facility:	u •			1. 1141.91			DOT Re	mleted/N	Non RCRA Materials-Liquids			
D'Allas Envi	ronmental Ser	vices, LL	.C, 10139 Gile	s Run Road, Lo	rton, Virgi	nia 22079	Line	Material	MA ACAG MAIOTAN DIGITAL			
							5.00		Mixture 3,UN1203,PGII ERG #128 for	Recycling		
Other:								Gasoline 3,UN1203,PGII ERG #128 for Recycling				
									Fuel Oil (No.1,2,4,5,or 6) 3,NA1993,PGII ERG #128			
4.312.2									1 3,1993 PGIII ERG #128			
Additional I	information:								otion, Turbine Engine 3,UN 1863, PGII	FRG #128		
									3, UN 1223.PGIII, ERG #128			
	2	4 Hour	Emergency 1 703-339-9	Phone Number	1			Other	3, ON 1223, Olli, EXG #120	<u> </u>		
			100-309-9	110				J C W. 101				
	Contair	ners	Total	Unit	Quantity	Quanity	Quantity					
Line	No.	Type	Quantity	Wt/Vol.	Liquid	Solid	Sludge		Notes			
1	/	11	610	GALLAS	600	-0	<b>-</b>					
2	6	24	6	Bag								
3												
4												
5	·											
6												
Generator'	s Certificat	ion: I ce	ertify the ma	aterials descri	bed abov	e on this doc	ument are not	subject to f	federal regulations for disposal of Ha	zardous Waste		
as defined	by RCRA. I	hereby	declare tha	t the contents	of this c	onsignment a	re fully and ac	curately do	escribed above by proper shipping na	ame and are		
classified, p	acked, mai	rked, an	d labeled, a	nd are in all r	espects in	n proper conc	dition for trans	sport by hig	ghway according to applicable federa	il, state, and		
local regula	ations.				······································							
Type/Print	Name: 1	1	la C.	· marker		Signature:			Month/ Day/ Year:	111		
	-Rg	<u> </u>		notatol	.le	1	······································					
		vieagem	ient of Rece	ipt of Materia	115	Signature:	*	#	Month/Day/ Year			
Type/Print	Name:	NING	11 -544	not.		Signature	son Dout	e)[[	2 7 201			
Transports	or 2 Acknow	uledgem	ent of Rece	ipt of Materia	ıls	<b>└</b>	2			***************************************		
Type/Print		, ica Bear	terr or rece	· P1 UT (1-241-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		Signature:			Month/Day/Year			
· ypor min	, 130,000											
Discrepano	y Indication	n Space	e									
1	0						)	,				
Facilia. C.	Jan alon	ralary	Cartification	nof receipt of	materio	s covered to	this manifes	except as A	oted in Discrepancy area ubove.			
		7//	- Crancons	y receipt of		Signature	101	-	Month/ Day/ Year	7/		
Type/Privi	Danie.	See	John			11.11	Show	M	-	1/201		
-fa		-	V.		- /	7	The same of the sa					

SHIPPING DOCUMENT

Non RCRA/Non DOT Regulated Material, Liquids



<b>D</b> ivision	-	A	010	0042		Glycols for Recycling		
Date:	Docume	nt# 🖊	OTC	, UTL		Kerosene and Water fo		
Date: Generator / Shipper: CR JUE						Mineral Oil for Recycl	ing	
re CR JUE	T VENT	me				Oil for Recycling		
US EPA ID#:					3_	Oil, Water for Recyclin	lg	
Address:						Wastewaters		
	***				Non RC	RA/Non DOT Regul	ated Material, Solids	
City:		State:	Zip:		Line	Material		
						Ash, Fly		
Contact:		Phone:				Debris, C & D related		
						Debris, Petroleum Imp	act, Specify:	
Site	•					Drums, Empty		
CUIC SPEC S	INE.					Filters for Recycling, P	etroleum Impacted:	
Address: STATE S  City: Castor Transporter No. 1: Area	1/2000					Sludge, Industrial		
14/1000	wron.	non				Sludge, Oil		
City:	•	State:	Zip:			Sludge, Tank Bottom		
RESTOR		VVI				Soil, Petroleum Impaci	ed, Specify:	
Transporter No. 1: Art	SENV. SU	* s.				Soil, Oil		
US EPA ID #:		Phone: /	17-33	19770		Sorbents, Diesel Fuel		
Transporter No. 2:				- Annie Son X	7	Sorbents, Oil		
US EPA ID#:	······································	Phone:				Other		
Facility:	***************************************	I			DOT Res	pulated / Non. RCR.	A Materials - Liquids	
Atlas Environmental Service	es, LLC, 10139 GI	es Run Road, L	orton, Virg	ginia 22079	Line	Material	A TYANGON AND A LINE BASES	
Other:							N1203 PGIT ERG #128 for Recycling	
						Gasoline Mixture 3, UN1203, PGII ERG #128 for Recycling Gasoline 3, UN1203, PGII ERG #128 for Recycling		
						Fuel Oil (No. 1,2,4,5,or 6) 3, NA1993, PG11 ERG #128		
Additional Information:						Diesel Fuel 3, 1993 PGIII ERG #128 Fuel, Aviation, Turbine Engine 3, UN1863, PGII ERG #128		
24 11	our Emergency P	rana Manakasi				Kerosene, 3, UN 1223.		
24 11	703-339-97					Other	F G 111, 12 KG #128	
	T i	***************************************	1					
Line Containers No. Type	Total Quantity	Unit Wt. / Vol.	Quantity Liquid	Quantity Solid	Quantity		Notes	
No. Type		W. 7 VOL.	Liquiu	/\$/5	Sludge			
	100		-	195	<del></del>			
	// 5	6	115					
3								
4	-						***************************************	
5	www.		-					
6	<u> </u>		1	ليبيا				
Generator's Certification	: I certify the ma	terials describ	ed above	on this docu	ment are not	subject to federal regul	ations for disposal of Hazardous Waste	
as defined by KCKA. I i	ereby declare th	at the content	s of this	consignment	are fully and	accurately described a	above by proper shipping name and are cording to applicable federal, state, and	
local regulations.	a, ma jabeleu,	and are m an	respects	in proper cor		insport by ingliway act	coroning to applicable rederal, state, and	
Type / Print Name: 1/	[E40			Signature:	1 11	2 / 1	Ionth / Day / Year	
- hA55				1	-12	4	2/10/2011	
Transporter 1 Acknowled	gement of Recei	pt of Materi	als	1	8	<u> </u>		
Type / Print Name:	Ill KAK	74		Signature:	Dan D		Ionth / Day / Year	
The state of the s	בווב וע	<i>.</i>			pasons	buch	EB 10 2011	
Transporter 2 Acknowled	gement of Recei	pt of Materia	ıls		<u> </u>			
Type / Print Name:				Signature:		N N	Ionth / Day / Year	
Discrepancy Indication Space						<u></u>		
				$\cap$				
p. 11/0	0.00			/-/	-	//		
Facility Owner or Operat	or: Certification	of receipt of			this manife		Discrepancy above,	
Type / Print Anne: STOE	141.1			Stengture	11.14		fonth / Day / Year / 10 / V	
JAM ULDER	wir	transvioriumumumumomerossisses propert	03/04/0	MII VOD	יות וי	10(77)	- [10.1	
			RIGINA	L. RETURN	TO GENE	PATOR		

SHIPPING DOCUMENT

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Diesel and Water for Recycling

Material

Line



<b>f</b> .					Diesel and Water for Recycling		
1 16		009	QAQ		Glycols for Recycling		
Date: 7 (4) \\ Documen	nt# A	UUJ	040		Kerosene and Water for Recycling		
Generator / Shipper:					Mineral Oil for Recycling		
Kell				Oil for Recycling			
US EPA ID#:			7	Oil, Water for Recycling			
Address:	**************************************				Wastewaters		
				Non RCI	RA/Non DOT Regulated Material, Solids		
City:	State:	Zip:		Line	Malerial		
J.,	J	land.		23110	Ash, Fly		
Contact:	Phone:	<u> </u>			Debris, C & D related		
Contact.	r none.				Debris, Petroleum Impact, Specify:		
Site :					Drums, Empty		
Site: Const. St6				<del>                                     </del>			
		······································			Filters for Recycling, Petroleum Impacted:		
Address:					Sludge, Industrial		
1100 643	<del>,</del>				Sludge, Oil		
City:	State:	Zip:			Sludge, Tank Bottom		
Lector	U/A	<u> </u>		_ L	Soil, Petroleum Impacted, Specify:		
Transporter No. 1: Fund 50	ripee	ME	70		Soil, Oil		
US EPA ID#:	Phone:				Sorbents, Diesel Fuel		
Transporter No. 2:				2	Sorbents, Oil		
US EPA ID #:	Phone:				Other		
Facility:				DOT Res	gulated / Non, RCRA Materials - Liquids		
☐ Atlas Environmental Services, LLC, 10139 Gi	les Run Road, L	orton, Virg	inia 22079	Line	Material		
Other:					Gasoline Mixture 3, UN1203, PGH ERG #128 for Recycling		
					Gasoline 3, UN1203, PGH ERG #128 for Recycling		
					Fuel Oil (No. 1,2,4,5,or 6) 3, NA 1993, PGII ERG #128		
Additional Information:	***************************************			<b></b>	Diesel Fuel 3, 1993 PGIII ERG #128		
				<b> </b>	Fuel, Aviation, Turbine Engine 3, UN1863, PGH ERG #128 Kerosene, 3, UN 1223, PGHI, ERG #128		
24 Hour Emergency P 703-339-97			***************************************				
703-337-77	70			<u> </u>	Other		
Line Containers Total	Unit	Quantity	Quantity	Quantity	Notes		
No. Type Quantity	Wt. / Vol.	Liquid	Solid	Sludge	INOTES		
1 1 77 GAZ	71						
2 -7 RAIS 165	140						
3 7 7							
4							
5							
6		1					
Generator's Certification: I certify the ma	aterials descril	bed above	on this docu	ment are not	subject to federal regulations for disposal of Hazardous Waste		
as defined by RCRA. I hereby declare the	nat the content	ts of this	consignment	are fully and	accurately described above by proper shipping name and are		
	and are in all	respects	in proper cor	dion for tra	insport by highway according to applicable federal, state, and		
local regulations.			-	Α			
Type / Print Name 7			Signature	// /	Month / Day / Year		
Transporter 1 Acknowledgement Rece	Inflormation to	-1-					
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Type / Print Name:			Signature:	-) (	Month Day, Year		
Transporter 2 Acknowledgement of Rece	in of Materia	ale			<del> 4 HH</del>		
Type / Print Name:	Promitantelli	7.03	Signature:	1	Month / Day / Year		
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Discrepancy Indication Space							
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F-111/0-11	F 1			M			
Facility Owner or Operator: Certification	or receipt of	material	s covered	yus minife			
Type (Print Name:		V	Signature	IN	Month / Day / Year 1411		
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v		- F-02/01/2	D11-KCQ.	TO GENE	Lof. 12		

Line

Material

**SHIPPING DOCUMENT** 

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids



		<b>A</b> .	009	aon		Glycols for Recycling		
Date: 2/17/11	Docume	nt# A	UUJ.	JLU		Kerosene and Water for Recycling		
Generator / Shipper:					-	Mineral Oil for Recycling		
KOL					Oil for Recycling			
US EPA ID#:					Oil, Water for Recycling			
Address:					7	Wastewaters		
					Non RCI	RA/Non DOT Regulated Material, Solids		
City:		State:	Zip:		Line	Material		
•			'			Ash, Fly		
Contact:		Phone:				Debris, C & D related		
						Debris, Petroleum Impact, Specify:		
Site:	<u>a</u>					Drums, Enipty		
( DAST.	31-15					Filters for Recycling, Petroleum Impacted:		
Address:	3 22					Sludge, Industrial		
TICOL -	2037					Sludge, Oil		
City:		State	Zip:			Sludge, Tank Bottom		
Leston	J	State:	Zip.			Soil, Petroleum Impacted, Specify:		
Transporter No. 1:	F SE CONT		SAM			Soil, Oil		
US EPA ID #:		Phone:	3.0 7.0			Sorbents, Diesel Fuel		
		1 r nune:	,,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		1	Sorbents, Oil		
Transporter No. 2:	·····	Int				Other		
US EPA ID #: Facility:		Phone:			DOT Por	gulated / Non, RCRA Materials - Liquids		
Atlas Environmental S	ervices, L.L.C. 10139 G	iles Run Road. I	orton, Virg	inia 22079	Line	Material		
☐ Other:		,	,		*3116			
☐ Other:						Gasoline Mixture 3, UN1203, PGH ERG #128 for Recycling		
						Gasoline 3, UN1203, PGH ERG #128 for Recycling		
						Fuel Oil (No. 1,2,4,5,or 6) 3, NA1993, PGII ERG #128		
Additional Information:						Diesel Fuel 3, 1993 PGIII ERG #128		
4						Fuel, Aviation, Turbine Engine 3, UN1863, PGII ERG #128		
	24 Hour Emergency I					Kerosene, 3, UN 1223, PGUI, ERG #128		
	703-339-9	770				Other		
Line Containe	Total Type Quantity	Unit Wt. / Vol.	Quantity Liquid	Quantity Solid	Quantity Sludge	Notes		
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3								
4			_					
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Generator's Certific as defined by RCRA classified, packed, r local regulations.	. I hereby declare i	hat the conten	its of this	consignment	are fully and	subject to federal regulations for disposal of Hazardous Waste d accurately described above by proper shipping name and are ansport by highway according to applicable federal, state, and		
Type / Print Name:		54	<	Signature	day	Month / Day / Year		
Transporter 1 Acknor	vledgeppent of Rec	eip∳of Materi	lals		11			
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Transporter 2 Ackno	wledgement of Rec	eipt of Mater	ials	(	<b>43</b>	T		
Type / Print Name:				Signature:		Month / Day / Year		
Discrepancy Indication	Space			$\overline{}$	./	7		
Facility Owner or On	erator: Certification	on of receipt o	f material	covered	thi manife	est except as noted in Discrepancy above.		
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Line

Material

**SHIPPING DOCUMENT** 

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Diesel and Water for Recycling



#### Diesel and Water for Recycling Glycols for Recycling 009846 Document# A Kerosene and Water for Recycling Mineral Oil for Recycling Oil for Recycling US EPA ID#: Oil, Water for Recycling Address: Wastewaters Non RCRA/Non DOT Regulated Material, Solids City: State: Zip: Material Ash, Fly Contact: Debris, C & D related Phone: Debris, Petroleum Impact, Specify: Site: Drums, Empty Filters for Recycling, Petroleum Impacted: Address Sludge, Industrial Sludge, Oil City: Zip: Sludge, Tank Bottom Soil, Petroleum Impacted, Specify: Transporter No. 1: 112an Soil, Oil US EPA ID#: Sorbents, Diesel Fuel Phone: Transporter No. 2: Sorbents, Oil US EPA ID#: Phone: Other Facility: DOT Regulated / Non, RCRA Materials - Liquids Atlas Environmental Services, LLC, 10139 Giles Run Road, Lorton, Virginia 22079 Line Material Other: Gasoline Mixture 3, UN1203, PG11 ERG #128 for Recycling Gasoline 3, UN1203, PGH ERG #128 for Recycling Fuel Oll (No. 1,2,4,5,or 6) 3, NA 1993, PGII ERG #128 Additional Information: Diesel Fuel 3, 1993 PGIII ERG #128 Fuel, Aviation, Turbine Engine 3, UN1863, PGII ERG #128 Kerosene, 3, UN 1223, PGIII, ERG #128 24 Hour Emergency Phone Number 703-339-9770 Other Containers Total Unit Quantity Quantity Quantity Line Notes Wt. / Vol. Quantity Liquid Solid Sludge No. Type 56 GAC CO 2 165 3 4 5 Generator's Certification: I certify the materials described above on this document are not subject to federal regulations for disposal of Hazardous Waste as defined by RCRA. I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state, and local regulations Type / Print Name: Signature: Month / Day / Year Transporter Acknowledgement of Receipt of Materials Signature: Month / Day / Year Transporter 2 Acknowledgement of Receipt of Materials Type / Print Name: Signature: Month / Day / Year Discrepancy Indication Space or Operator: Certification of receipt of materials covered by this manifest except as noted in Discrepancy above. **Facility Owner** Month / Day / Year ignasare: 2

SHIPPING DOCUMENT

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Material

Line



10139 Giles Run Road, Lorton, VA 22079 Phone: 703-339-9770 Fax: 703-339-9771

	ł	hon	e: 703 _:	-339-9770 F	ax: /03-339-5	///1		1	Diesel and Water for Recycling
		·	١ ١			000	775		Glycols for Recycling
Date:	10 1	EE	> 11	Documen	at# A	0097	10		Kerosene and Water for Recycling
Generator			0	3)					Mineral Oil for Recycling
		1	16	-6					Oil for Recycling
US EPA I	D#:	N	57	REO	MIRE	17			Oil, Water for Recycling
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City	L. ~ 3		~~	`	State: 1	Zip:		Line	Material
1	1	>1(	ノア	J	000				Ash, Fly
Contact:			***************************************		Phone:				Debris, C & D related
									Debris, Petroleum Impact, Specify:
Site:	~	<u> </u>		~ ^	- 7	0 -	\sigma		Drums, Empty
_		11	AL	EA	SP	BOU			Filters for Recycling, Petroleum Impacted:
Address:		***************************************							Sludge, Industrial
									Sludge, Oli
City:		·····			State:	Zip:			Sludge, Tank Bottom
•				5.0 \$4.0 LK				,	Soil, Petroleum Impacted, Specify:
Transport	er No. 1	:	17	TLAS	FNO	NOST	MERM		Soil, Oil
US EPA L			+	REQUIRE	CD Phone:	03.3	399770	)	Sorbents, Diesel Fuel
Transpor				122-120					Sorbents, Oit
US EPA I			·	······	Phone:				Other
Facility:								DOT Re	gulated / Non, RCRA Materials - Liquids
Allas E	invironm	iental	Service	s, LLC, 10139 G	iles Run Road, L	orton, Virg	inia 22079	Line	Material
Other:									Gasoline Mixture 3, UN1203, PGI1 ERG #128 for Recycling
									Gasoline 3, UN1203, PGII ERG #128 for Recycling
									Fuel Oil (No. 1,2,4,5,or 6) 3, NA 1993, PG11 ERG #128
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<b>井</b> 。	7-1							Ų	Fuel, Aviation, Turbine Engine 3, UN1863, PGII ERG #128
			24 Ho	ur Emergency F	hone Number				Kerosene, 3, UN 1223, PGIII, ERG #128
				703-339-97					Other
<u> </u>	Τ 6.			· ·	11-15	h	Quantity	Quantity	T
Line	No	ntain		Total Quantity	Unit Wt. / Vol.	Quantity Liquid	Solid	Sludge	Notes
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local	egulatio	ons.					1 1 1		
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SHIPPING DOCUMENT

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Material



10139 Giles Run Road, Lorton, VA 22079 Phone: 703-339-9770 Fax: 703-339-9771

	بخطا	. 1		A	009	805			Glycols for Recycling		
Date:	15-1	<u> </u>	- Documei	nt# 🗛	000	000	,	******	Kerosene and Water		
Generator	/ Shipper:						_		Mineral Oil for Recy	cling	
	XCO	· 					<b> </b>		Oil for Recycling		
US EPA 1D	#: <u>}</u>	VV	Repulb	<del>2</del> 0			-		Oil, Water for Recycl	ling	
Address:			0				Ļ		Wastewaters		
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City:				State:	Zip:		L	ine	Material Ash, Fly		
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Contact:				Phone:			-		Debris, C & D relate		
							_		Debris, Petroleum In	npact, Specify:	
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MA	er M	449	CONSTILL	AION >	148					Petroleum Impacted:	
Address:	450	,	ty Pluy	. 1-1-1		-	_		Sludge, Industrial		
774	m10)	LA	MY TLWY	461	pren	28/	-		Sludge, Oil		
City:			,	State:	Zip:		-		Sludge, Tank Bottom		
	Ator			L PAT			_		Soil, Petroleum Impa	icted, Specity:	
Transporte	<del>y</del>	74	100 En	normen	XOL.		-	<del>,</del>	Soil, Oil		
US EPA II		Y 149	4	Phone: ZZ	5-33	1-9720	-		Sorbents, Diesel Fuel		
Transporte	<del>hair deangramagan ang ang an ang ang ang ang ang ang </del>	-	*	- 1			-		Sorbents, Oil		
US EPA ID	)#;	-		Phone:		and the state of t	Ļ	vom n	Other BC	DA STANDAY TENDER	
Facility:	viranmonta	Carvico	s, LLC, 10139 Gi	les Dun Road L	orton Viro	inia 22079				RA Materials - Liquids	
Other:	1111 OIDM C 1114	i izer vice	3, 600, 10107 (1	ica Ron Rond, D	arrant	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	line	Material Continue 1	ration port poor stage P N	
C Other:										UN1203, PGH ERG #128 for Recycling	
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Additional	Informatio	15.4			<b>****</b>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	╽┝			or 6) 3, NA 1993, PG11 ERG #128	
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_			7 7 7-0				-		Kerosene, 3, UN 122:	ne Engine 3, UN1863, PGH ERG #128	
		A4 110	ur Emergency P 703-339-97				╽┝		Other	5, ryili, ENG #128	
			100-335-77			7	<u> </u>		Other		
Line	Contair No.	Type	Total Quantity	Unit Wt. / Vol.	Quantity Liquid	Quantity Solid		uantity Sludge	Notes		
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4											
5											
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as defin classifie	ed by RCF	RA. I he	ereby declare th	nat the content	s of this	consignment	are	fully and	accurately described	gulations for disposal of Hazardous Waste d above by proper shipping name and are according to applicable federal, state, and	
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Transport	ter 2 Ackn	owledg	ement of Rece		ls						
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Discrepand	y Indicatio	n Space			/		,	. 1			
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				0	HIGINA	L: RETURN	VITC	GENE	RATOR	ŧ	

**SHIPPING DOCUMENT** 

Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

Diesel and Water for Recycling

Material

Line



10139 Giles Run Road, Lorton, VA 22079 Phone: 703-339-9770 Fax: 703-339-9771

			*	•	000	1993		Glycols for Recyclin	g
Date:			Docume	nt# A	UUS	1333		Kerosene and Water	for Recycling
Generator	/Shipper:	1/ 6	_				-1	Mineral Oil for Rec	ycling
		KC	K					Oil for Recycling	
US EPA ID	)#: A	107	REQUIRE	٥			l l	Oil, Water for Recyc	ling
Address:	<b>5</b>							Wastewaters	
	KX 710	00	OND TRA	72			Non RC	RA/Non DOT Reg	ulated Material, Solids
City:				State:	Zip:		Line	Material	
L.								Ash, Fly	
Contact:				Phone:				Debris, C & D relate	ed .
								Debris, Petroleum I	mpact, Specify:
Site:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							Drums, Empty	
								Filters for Recycling	, Petroleum Impacted:
Address:					•			Sludge, Industrial	
								Sludge, Oil	
City:				State:	Zip:			Sludge, Tank Botton	
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Transporte	r No. 1:	AHO	Enulson	erital Ross	vices			Soil, Oil	
US EPA ID			QUILED	Phone: 70	3 339	9771		Sorbents, Diesel Fu	1
Transporte	r No. 2:	•						Sorbents, Oil	
US EPA ID	) #;			Phone:				Other	
Facility:				a 90 E VI			· -		RA Materials - Liquids
	wironmenta	I Service	s, LLC, 10139 G	lles Run Road, L	orton, Virg	glula 22079	Line	Material	
Other:									UN1203, PG11 ERG #128 for Recycling
								Gasoline 3, UN1203	, PGII ERG #128 for Recycling
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		24 Ho	ur Emergency F						3, PGIII, ERG #128
			703-339-97	770			l L	Other	
Line	Contai No.	ners Type	Total Quantity	Unit Wt. / Vol.	Quantity Liquid	Quantity Solid	Quantity Sludge		Notes
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3					1				
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Discrepand	cy Indicatio	n Space				<u>~</u>	~	0	
Facility O	wer or (	Inerate	r: Certificatio	n of receipt of	materia	s covered A	dis manif	est except as noted i	n Discrepancy above.
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1				C	RIGINA	L'AETOR	TO GENE	RATOR	v 1

Line

Material

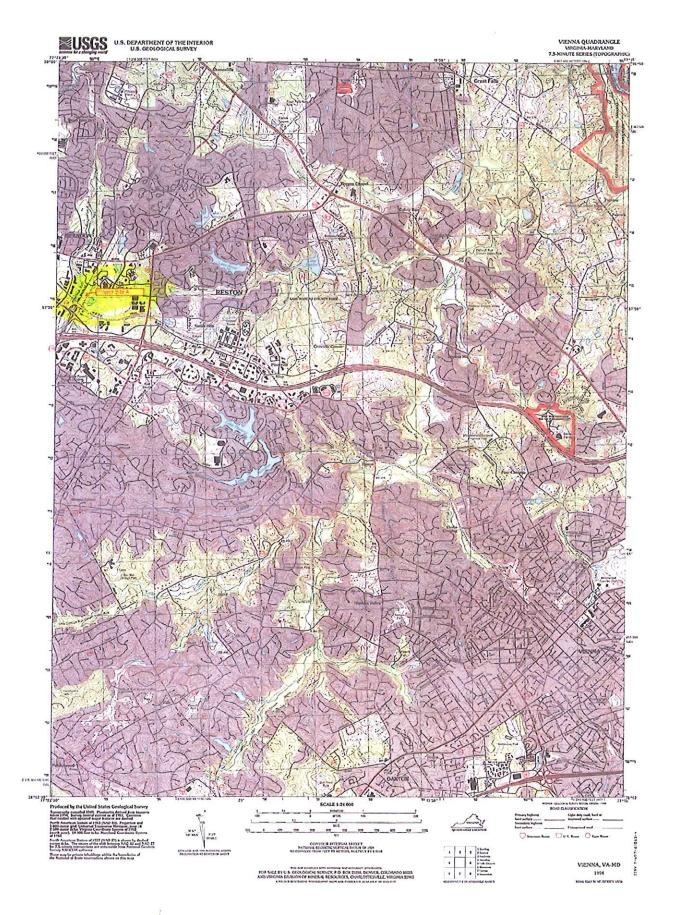
SHIPPING DOCUMENT

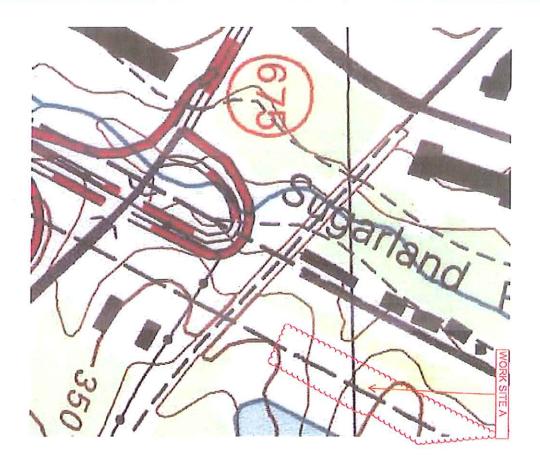
Petroleum Impacted Water / Commercial Contact Water

Non RCRA/Non DOT Regulated Material, Liquids

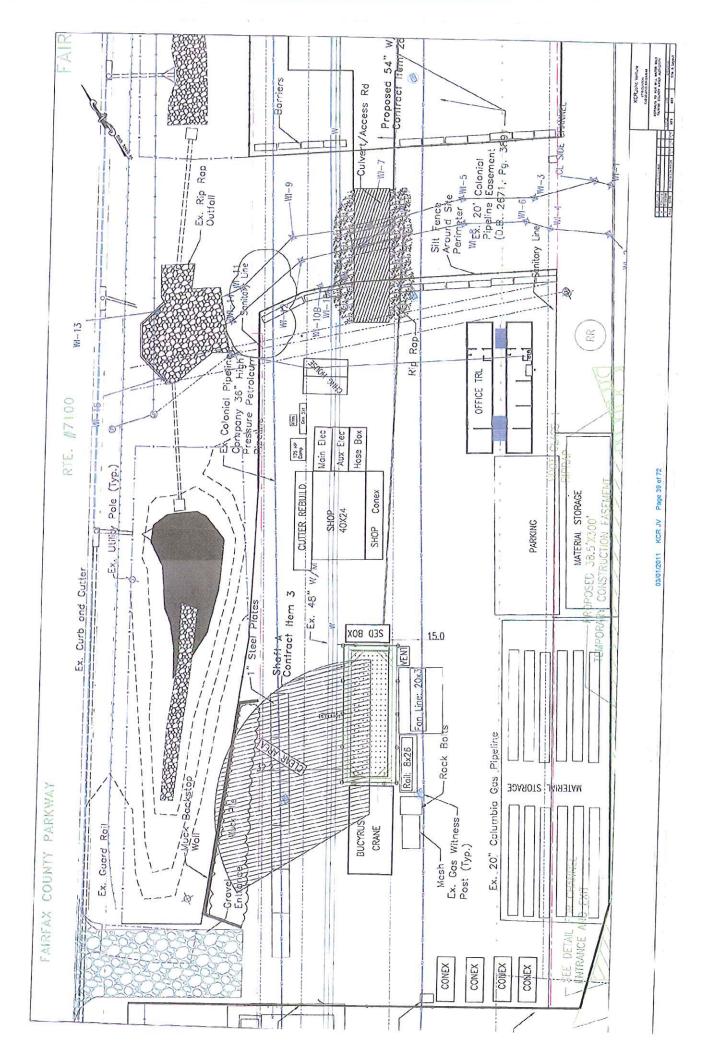
Diesel and Water for Recycling

# **USGS Maps**





# Site Diagram



# **Treatment System Diagram**

03/01/2011 KCR JV Page 40 of 72

03/01/2011 KCR JV Page 41 of 72

# Site Material Safety Data Sheets (MSDS)



#### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.

#### D-A Lubricant

1340 W. 29th St. Indianapolis, IN 46208 317/923-5321 CHEMICAL EMERGENCY HOTLINE 800 899-9004

PRODUCT NAME:

ROCK DRILL, ALL GRADES

PRODUCT DESCRIPTION: ROCK DRILL, ALL GRADES CHEMICAL FAMILY:

PETROLEUM OIL, MACHINE OIL

EFFECTIVE DATE:

02/19/08

SUPERCEDES DATE: 03/02/05

Dear Customer:

In compliance with the Superfund Amendments and Reauthorization Act (SARA Title III, Section 313), Federal Hazard Communications Regulations (WHMIS and OSHA 29 CFR 1910.1200) and in the interest of informed use of our product, we are providing you with this Material Safety Data Sheet (MSDS).

This MSDS will be updated regularly to reflect the most recent information in our possession. Please ensure that obsolete MSDS sheets in your files for this part number are discarded.

We THANK YOU for your continued patronage and look forward to providing you with additional quality products and services.

SECTION 2 - HAZARDOUS INGREDIENTS										
COMPONENT CAS #	% WT	PEL	TLV	STEL	UNITS	LC50, PPM	LD50,MG/	ΚG		
PETROLEUM OILS										
64742-65-0	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000		
64741-88-4	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000		
64742-01-4	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000		
	60-99									
PETROLEUM OILS										
64741-89-5	60-99	5	5		MG/M3		RATI 13000	RABA 2000		

# SECTION 3 - PHYSICAL DATA

Boiling Pt Deg F/C: >500/>260

Specific Gravity: 0.86 to 0.90

Vapor Pressure (MM HG): NIL Vapor Density (Air=1): N/A

% Volatile Volume: NIL Evaporation Rate: <0.1

Solubility in Water: NEGLIGIBLE

Water/Oil Dist Coeff: 0

Appearance and Odor: Amber Liquid with Mild Petroleum Odor

Physical State: Liquid

PH: N/A

Freeze Pt Deg F/C: N/A

Threshold Odor, PPM: N/A

Other: N/A

VOC: Lbs/Gal = N/A

Grams/Liter = N/A

Grams Vol/Gram Solid = N/A

% VOC: N/A

# SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Classification: Combustible at high temp

NFPA Rating: 1.1.0

Combustion products: CO, CO2, Smoke, Sulfur, Nitrogen and Phosphorous compounds.

Flash Point Deg F/C: >370/>188

LEL %: N/A % UEL %: N/A %

Extinguishing Media: Water Fog, Foam, Dry Chemical, CO2, Sand, or Earth.

UN/NA/PIN#: N/A

Special Fire Fighting Procedures

Firefighters should wear self-contained breathing equipment. Treat as a Class B fire. Use

water to cool threatened containers. 03/01/2011 KCR JV Page 43 of 72

Auto Ign. Temp Deg F/C: >500/>260

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PRODUCT NAME:

ROCK DRILL, ALL GRADES

EFFECTIVE DATE:

02/19/08

SUPERCEDES DATE: 03/02/05

Unusual fire and explosion hazards: N/A

Explosion Power: N/A Burning Rate: Low

Impact Sensitive: No Static Sensitive: No

# SECTION 5 - HEALTH HAZARD DATA

Product guide: TLV see Section 2

STEL: see Section 2

Routes of Entry: Skin contact, Eye, Inhalation, Ingestion

Effects of Overexposure:

Acute; may cause respiratory system, skin, and/or eye irritation.

Ingestion may cause nausea, cramps, diarrhea, and other gastrointestinal disorders.

Chronic; excess mist may cause respiratory problems.

Excess skin contact may cause dryness and/or sensitization.

Any suspected carcinogen = or > 0.1%?: NO

Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Emergency and First Aid Procedures

Eye: Immediately flush with water for 15 minutes and call a physician.

Inhalation: If affected, remove to fresh air, administer oxygen and call a physician.

Skin: Wash thoroughly with plenty of water and soap.

Ingestion: Seek a physician immediately; show MSDS or Label; DO NOT induce vomiting.

Wash soiled clothing before wearing again.

#### SECTION 6 - REACTIVITY DATA

Stable: YES

Conditions to Avoid: N/A

Incompatibility (Materials to avoid): YES, strong oxidizing agents

Hazardous Decomposition Products: YES, combustion products, see Section 4

Hazardous Polymerization: NO

Conditions to Avoid: N/A

# SECTION 7 - SPILL OR LEAK PROCEDURES

Listed in SARA Title III, #302: NO

#304, Cercla: NO

Steps to be taken in case material is released or spilled:

Eliminate source if safe to do so. Prevent from entering waterways and drains. Wear suitable personal protective equipment. Dike and absorb with inert material and transfer to a sealed approved container for disposal. Any spill of this material that can enter navigable waters must be reported immediately to the National Response Center (800-424-8802)

Report Quantity, Lb: N/A

Kg: N/A

TPQ, Lb: N/A

Other: N/A

Hazard Waste: NO

Regulations:

NO.:

Disposal Method: In accordance with Federal, State, and Local Regulations.

*** SARA Waste Characteristic: N/A

*** EPA Hazardous Waste Number: N/A

# SECTION 8 - SAFE HANDLING AND PROTECTION INFORMATION

Respiratory Protection: Use only in well ventilated areas.

Ventilation - Local: Recommended

Special: Avoid Heat/Flame

Mechanical: Required

Other: N/A

Protective Gloves: Oil/Solvent resistant Eye Protection: Safety Glasses/Goggles Other Protective Equipment:

Oil/Solvent resistant clothing and footwear. If ventilation is inadequate,

wear approved respiratory equipment.

Estimated LD50, Mg/Kg: YES Dermal, Rabbit 2000, Oral Rat 13000

Estimated LC50, PPM: NO

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PRODUCT NAME: ROCK DRILL, ALL GRADES

EFFECTIVE DATE: 02/19/08 SUPERCEDES DATE: 03/02/05

Sensitization: NO

Irritant: NO Synergistic Agents: NO

#### SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

Use only in well ventilated areas. Avoid prolonged or repeated breathing of fumes, vapor, or mist. Avoid contact with eyes and skin. DO NOT take internally. Wash thoroughly after using. In case of accident or illness, consult a physician immediately; show label and/or MSDS.

Keep out of reach of children.

Always read and follow directions on product label.

# Other precautions:

More technical information (MSDS) available upon request. For professional industrial use only. Good personal hygiene is important. Empty containers retain residue which can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources; they may explode and cause injury or death.

The information and recommendations provided herein are believed to be accurate as of the date hereof. However, such information and recommendations are provided without warranty of any kind and D-A Lubricant disclaims any and all liability or legal responsibility for use or reliance upon same.



# SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.

#### D-A Lubricant

1340 W. 29th St. Indianapolis, IN 46208 317/923-5321 CHEMICAL EMERGENCY HOTLINE 800 899-9004

PRODUCT NAME:

MAGNAPLEX 1,1 1/2,2

PRODUCT DESCRIPTION: MAGNAPLEX 1,1 1/2,2 CHEMICAL FAMILY:

LUBRICATING GREASE

EFFECTIVE DATE:

01/27/09

SUPERCEDES DATE: 01/22/09

Dear Customer:

In compliance with the Superfund Amendments and Reauthorization Act (SARA Title III, Section 313), Federal Hazard Communications Regulations (WHMIS and OSHA 29 CFR 1910.1200) and in the interest of informed use of our product, we are providing you with this Material Safety Data Sheet (MSDS).

This MSDS will be updated regularly to reflect the most recent information in our possession. Please ensure that obsolete MSDS sheets in your files for this part number are discarded.

We THANK YOU for your continued patronage and look forward to providing you with additional quality products and services.

		SE	CTION	2 - H	AZARDO	OUS IN	gredient	S			
COMPONEN	T CAS #	% WT	PEL	TLV	STEL	UNITS	LC50, PPM	LD50,MG/H	KG		
PETROLEU	M OILS	-			-	-		***************************************			
	64742-65-0	60-65	5	5	10	MG/M3		RATI 13000	<b>RABA 2000</b>		
	64741-95-3	20-25	5	5	10	MG/M3		RATI 5000	RABA 2000		
MOLYBDEN	UM DISULFIC	Œ									
	01317-33-5	1-5	15	10		MG/M3		RATI 6500			
ZINC DIORGANO-DITHIOPHOSPHATE											
	68649-42-3	0.5-1.5						RATI >5000	RABA >2000	SARA Rep.	
PETROLEU	M OILS										
	64742-52-5	60-65	5	5	10	MG/M3		RATI 5000	RABA 2000		
LITHUIM I	HYDROXIDE										
	1310-66-3	1-5									
ANTIMONY	DIALKYL-DI	THIOCARBAMA	TE								
	15890-25-2	0-0.5	0.5	0.5		MG/M3	100	RATI 16400	RABA 16000	SARA Rep.	
CALCIUM (	CARBONATE (	SALT)								•	
	471-34-1	5-7	5	10		MG/M3		RATI 6450			

# SECTION 3 - PHYSICAL DATA

Boiling Pt Deg F/C: >500/>260

Specific Gravity: 0.86 TO .92

Vapor Pressure (MM HG): NIL Vapor Density (Air=1): N/A

% Volatile Volume: NIL Evaporation Rate: <0.1

Solubility in Water: NEGLIGIBLE

Water/Oil Dist Coeff: 0

Appearance and Odor: Gray grease with petroleum odor Physical State: SEMI SOLID

Threshold Odor, PPM: N/A

Freeze Pt Deg F/C: N/A Other: N/A

VOC: Lbs/Gal = N/A

PH: N/A

Grams/Liter = N/A

Grams VOC/Gram Solid = N/A

% VOC: N/A

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PRODUCT NAME:

MAGNAPLEX 1,1 1/2,2

EFFECTIVE DATE:

01/27/09

SUPERCEDES DATE: 01/22/09

#### SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Classification: Combustible at high temp

NFPA Rating: 1.1.0

HMIS RATING: 1.1.0

Combustion products: CO, CO2, Smoke, Sulfur, Nitrogen, Phosphorous, Zinc, Antimony, and

Molybdenum Compounds.

Flash Point Deg F/C: >450/232

LEL %: N/A % UEL %: N/A %

Extinguishing Media: Water Fog, Foam, Dry Chemical, CO2, Sand, or Earth.

UN/NA/PIN#: N/A

Special Fire Fighting Procedures

Firefighters should wear self-contained breathing equipment. Treat as a Class B fire. Use

water to cool threatened containers. Auto Ign. Temp Deg F/C: >500/>260

Unusual fire and explosion hazards: N/A

Explosion Power: N/A Burning Rate: Low

Impact Sensitive: No Static Sensitive: No

#### SECTION 5 - HEALTH HAZARD DATA

Product Guide: TLV see Section 2

STEL: see Section 2

Routes of Entry: Skin contact, Eye, Inhalation, Ingestion

Effects of Overexposure:

Acute; may cause respiratory system, skin, and/or eye irritation.

Ingestion may cause nausea, cramps, diarrhea, and other gastrointestinal disorders.

Chronic; excess mist may cause respiratory problems.

Excess skin contact may cause dryness and/or sensitization.

Excess inhalation and/or ingestion may be harmful to respiration system and heart.

Any suspected carcinogen = or > 0.1%?: NO

Emergency and First Aid Procedures

Eye: Immediately flush with plenty of water for 15 minutes and call a physician.

Inhalation: If affected, remove to fresh air, administer oxygen and call a physician.

Skin: Wash thoroughly with plenty of water and soap.

Ingestion: Seek a physician immediately, show MSDS or Label; Do Not Induce vomiting.

Wash soiled clothing before wearing again.

# SECTION 6 - REACTIVITY DATA

Stable: YES

Conditions to Avoid: N/A

Incompatibility (Materials to avoid): YES, strong oxidizing agents

Hazardous Decomposition Products: YES, combustion products, see Section 4

Hazardous Polymerization: NO

Conditions to Avoid: N/A

# SECTION 7 - SPILL OR LEAK PROCEDURES

Listed in SARA Title III, #302: NO

#304, Cercla: NO

#313: YES

Steps to be taken in case material is released or spilled:

Eliminate source if safe to do so. Prevent from entering waterways and drains. Wear suitable personal protective equipment. Dike and absorb with inert material and transfer to a sealed approved container for disposal.

Report Quantity, Lb: N/A

Kg: N/A

TPQ, Lb: N/A Other: N/A

Regulations: SARA

Hazard Waste: NO

NO.:

Disposal Method: In accordance with Federal, State, and Local Regulations.

*** SARA Waste Characteristic: N/A

*** EPA Hazardous Waste Number: N/A

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PRODUCT NAME: EFFECTIVE DATE:

MAGNAPLEX 1,1 1/2,2

01/27/09

SUPERCEDES DATE: 01/22/09

# SECTION 8 - SAFE HANDLING AND PROTECTION INFORMATION

Respiratory Protection: Use only in well ventilated areas.

Ventilation - Local: Recommended

Special: Avoid Heat/Flame

Mechanical: Required

Other: N/A

Protective Gloves: Oil/Solvent resistant Eye Protection: Safety Glasses/Goggles Other Protective Equipment:

Other Protective Equipment:

Oil/Solvent resistant clothing and footwear. If ventilation is inadequate,

wear approved respiratory equipment.

Estimated LD50, Mg/Kg: YES Dermal, Rabbit >2000 Oral Rat >5000

Estimated LC50, PPM: NO

Sensitization: NO

Irritant: NO

Synergistic Agents: NO

# SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

Use only in well ventilated areas. Avoid prolonged or repeated breathing of fumes, vapor, or mist. Avoid contact with eyes and skin. DO NOT take internally. Wash thoroughly after using. In case of accident or illness, consult a physician immediately; show label and/or MSDS.

Keep out of reach of children.

Always read and follow directions on product label.

Other precautions:

More technical information (MSDS) available upon request. For professional industrial use only. Good personal hygiene is important. Empty containers retain residue which can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources; they may explode and cause injury or death.

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# SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.

#### D-A Lubricant

1340 W. 29th St.
Indianapolis, IN 46208
317/923-5321
CHEMICAL EMERGENCY HOTLINE 800 899-9004

PRODUCT NAME:

WEARGUARD II

PRODUCT DESCRIPTION: WEAR GUARD

CHEMICAL FAMILY:

PETROLEUM OIL, HYDRAULIC FLUID

EFFECTIVE DATE:

03/03/08

SUPERCEDES DATE:

02/19/08

Dear Customer:

In compliance with the Superfund Amendments and Reauthorization Act (SARA Title III, Section 313), Federal Hazard Communications Regulations (WHMIS and OSHA 29 CFR 1910.1200) and in the interest of informed use of our product, we are providing you with this Material Safety Data Sheet (MSDS).

This MSDS will be updated regularly to reflect the most recent information in our possession. Please ensure that obsolete MSDS sheets in your files for this part number are discarded.

We THANK YOU for your continued patronage and look forward to providing you with additional quality products and services.

	SE	CTION	2 - H	AZARDO	OUS INGREDIEN	TS		
COMPONENT CAS #	% WT	PEL	TLV	STEL	UNITS LC50, PP	1 LD50,MG/I	ζG	
PETROLEUM OILS								
64742-65-0	60-99	5	5	10	MG/M3	RATI 13000	RABA 2000	
64741-88-4	60-99	5	5	10	MG/M3	RATI 13000	<b>RABA 2000</b>	
64742-58-1	60-99	5	5	10	MG/M3	RATI 13000	RABA 2000	
64742-01-4	60-99	5	5	10	MG/M3	RATI 13000	RABA 2000	
	60-99							
ZINC DIORGANO-DITHIC	OPHOSPHATE							
68649-42-3	.1-1					RATI >5000	RABA >2000	S
PETROLEUM OILS								
64741-89-5	60-99	5	5		MG/M3	RATI 13000	RABA 2000	

#### SECTION 3 - PHYSICAL DATA

Boiling Pt Deg F/C: >500/>260

Specific Gravity: 0.86 to 0.90

Vapor Pressure (MM HG): NIL Vapor Density (Air=1): N/A % Volatile Volume: NTL
Evaporation Rate: <0.1</pre>

Solubility in Water: NEGLIGIBLE

Water/Oil Dist Coeff: 0

Appearance and Odor: Amber Liquid with Mild Petroleum Odor

Physical State: Liquid

PH: N/A

Freeze Pt Deg F/C: N/A

Threshold Odor, PPM: N/A

Other: N/A

VOC: Lbs/Gal = N/A

Grams/Liter = N/A

Grams Vol/Gram Solid = N/A

% VOC: N/A

# SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Classification: Combustible at high temp

NFPA Rating: 1.1.0

Combustion products: CO, CO2, Smoke, Sulfur, Nitrogen, Calcium, Phosphorous, and Zinc

compounds.

Flash Point Deg F/C: >370/>188

LEL %: N/A % UEL %: N/A %

Extinguishing Media: Water Fog, Foam, Dyy/Chémikal / CO29e Sand/2 or Earth.

UN/NA/PIN#: N/A

2 Page

PRODUCT NAME: WEARGUARD II

EFFECTIVE DATE:

03/03/08

SUPERCEDES DATE: 02/19/08

Special Fire Fighting Procedures

Firefighters should wear self-contained breathing equipment. Treat as a Class B fire. Use

water to cool threatened containers.

Auto Ign. Temp Deg F/C: >500/>260

Unusual fire and explosion hazards: N/A

Explosion Power: N/A Burning Rate: Low

Impact Sensitive: No Static Sensitive: No

#### SECTION 5 - HEALTH HAZARD DATA

Product guide: TLV see Section 2

STEL: see Section 2

Routes of Entry: Skin contact, Eye, Inhalation, Ingestion

Effects of Overexposure:

Acute; may cause respiratory system, skin, and/or eye irritation.

Ingestion may cause nausea, cramps, diarrhea, and other gastrointestinal

disorders.

Chronic; excess mist may cause respiratory problems.

Excess skin contact may cause dryness and/or sensitization.

Any suspected carcinogen = or > 0.1%?: NO

Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Emergency and First Aid Procedures

Eye: Immediately flush with water for 15 minutes and call a physician.

Inhalation: If affected, remove to fresh air, administer oxygen and call a physician.

Skin: Wash thoroughly with plenty of water and soap.

Ingestion: Seek a physician immediately; show MSDS or Label; DO NOT induce vomiting.

Wash soiled clothing before wearing again.

#### SECTION 6 - REACTIVITY DATA

Stable: YES

Conditions to Avoid: N/A

Incompatibility (Materials to avoid): YES, strong oxidizing agents

Hazardous Decomposition Products: YES, combustion products, see Section 4

Hazardous Polymerization: NO

Conditions to Avoid: N/A

# SECTION 7 - SPILL OR LEAK PROCEDURES

Listed in SARA Title III, #302: NO

#304, Cercla: NO

Steps to be taken in case material is released or spilled:

Eliminate source if safe to do so. Prevent from entering waterways and drains. Wear suitable personal protective equipment. Dike and absorb with inert material and transfer to a sealed approved container for disposal. Any spill of this material that can enter navigable waters must be reported

immediately to the National Response Center (800-424-8802)

Report Quantity, Lb: N/A Regulations: SARA, TSCA

Kg: N/A

TPQ, Lb: N/A

#313: YES

Other: N/A

Hazard Waste: NO

NO.:

Disposal Method: In accordance with Federal, State, and Local Regulations.

*** SARA Waste Characteristic: N/A

*** EPA Hazardous Waste Number: N/A

# SECTION 8 - SAFE HANDLING AND PROTECTION INFORMATION

Respiratory Protection: Use only in well ventilated areas.

Ventilation - Local: Recommended

Special: Avoid Heat/Flame

Mechanical: Required

Other: N/A

Protective Gloves: Oil/Solvent resistant, Eye Protection: Safety Glasses/Goggles Other Protective Equipment:

PRODUCT NAME:

WEARGUARD II

EFFECTIVE DATE:

03/03/08

SUPERCEDES DATE: 02/19/08

Oil/Solvent resistant clothing and footwear. If ventilation is inadequate,

wear approved respiratory equipment.

Estimated LD50, Mg/Kg: YES Dermal, Rabbit 2000, Oral Rat 13000

Estimated LC50, PPM: NO

Sensitization: NO

Irritant: NO

Synergistic Agents: NO

#### SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

Use only in well ventilated areas. Avoid prolonged or repeated breathing of fumes, vapor, or mist. Avoid contact with eyes and skin. DO NOT take internally. Wash thoroughly after using. In case of accident or illness, consult a physician immediately; show label and/or MSDS.

Keep out of reach of children.

Always read and follow directions on product label.

# Other precautions:

More technical information (MSDS) available upon request. For professional industrial use only. Good personal hygiene is important. Empty containers retain residue which can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources; they may explode and cause injury or death.

The information and recommendations provided herein are believed to be accurate as of the date hereof. However, such information and recommendations are provided without warranty of any kind and D-A Lubricant disclaims any and all liability or legal responsibility for use or reliance upon same.



# SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.

#### D-A Lubricant

1340 W. 29th St. Indianapolis, IN 46208 317/923-5321 CHEMICAL EMERGENCY HOTLINE 800 899-9004

PRODUCT NAME:

EXCELON EBS

PRODUCT DESCRIPTION: EXCELON EBS (formerly Titan EBS)

CHEMICAL FAMILY:

PETROLEUM OIL, MOTOR OIL

EFFECTIVE DATE:

03/03/08

SUPERCEDES DATE: 02/19/08

Dear Customer:

In compliance with the Superfund Amendments and Reauthorization Act (SARA Title III, Section 313), Federal Hazard Communications Regulations (WHMIS and OSHA 29 CFR 1910.1200) and in the interest of informed use of our product, we are providing you with this Material Safety Data Sheet (MSDS).

This MSDS will be updated regularly to reflect the most recent information in our possession. Please ensure that obsolete MSDS sheets in your files for this part number are discarded.

We THANK YOU for your continued patronage and look forward to providing you with additional quality products and services.

		SE	CTION	2 - H.	AZARDO	ous in	GREDIENT	S		
COMPONEN	T CAS #	% WT	PEL	TLV	STEL	UNITS	LC50, PPM	LD50,MG/F	⟨G	_
PETROLEU	M OILS									_
	64742-65-0	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000	
	64741-88-4	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000	
ZINC DIO	RGANO-DITHI	OPHOSPHATE								
	68649-42-3	>1.5						RATI >5000	RABA >2000	SARA Rep.
PETROLEU	M OILS									
	64741-89-5	60-99	5	5		MG/M3		RATI 13000	RABA 2000	

# SECTION 3 - PHYSICAL DATA

Boiling Pt Deg F/C: >500/>260

Specific Gravity: 0.86 to 0.90 % Volatile Volume: NIL

Vapor Pressure (MM HG): NIL Vapor Density (Air=1): N/A

Evaporation Rate: <0.1

Solubility in Water: NEGLIGIBLE

Water/Oil Dist Coeff: 0

Appearance and Odor: Brown fluid with Mild Petroleum Odor

Physical State: LIQUID

Freeze Pt Deg F/C: N/A

Threshold Odor, PPM: N/A

Other: N/A

VOC: Lbs/Gal = N/A

Grams/Liter = N/A

Grams VOC/Grams Solid = N/A

% VOC: N/A

#### SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Classification: Combustible at high temp

NFPA Rating: 1.1.0

Combustion products: CO, CO2, Smoke, Sulfur, Nitrogen, Phosphorous, Boron, Molybdenum,

Calcium, and Zinc Compounds.

Flash Point Deg F/C: >370/>188

LEL %: N/A % UEL %: N/A %

Extinguishing Media: Water Fog, Foam, Dry Chemical, CO2, Sand, or Earth.

UN/NA/PIN#: N/A

Special Fire Fighting Procedures

Firefighters should wear self-contained breathing equipment. Treat as a Class B fire. Use

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2

PRODUCT NAME:

EXCELON EBS

EFFECTIVE DATE:

03/03/08

SUPERCEDES DATE: 02/19/08

water to cool threatened containers. Auto Ign. Temp Deg F/C: >500/>260

Unusual fire and explosion hazards: N/A

Explosion Power: N/A Burning Rate: Low

Impact Sensitive: No Static Sensitive: No

# SECTION 5 - HEALTH HAZARD DATA

Product guide: TLV see Section 2

STEL: see Section 2

Routes of Entry: Skin contact, Eye, Inhalation, Ingestion

Effects of Overexposure:

Acute; may cause respiratory system, skin, and/or eye irritation.

Ingestion may cause nausea, cramps, diarrhea, and other gastrointestinal

disorders.

Chronic; excess mist may cause respiratory problems.

Excess skin contact may cause dryness and/or sensitization.

Any suspected carcinogen = or > 0.1%?: NO

Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Emergency and First Aid Procedures

Eye: Immediately flush with water for 15 minutes and call a physician.

Inhalation: If affected, remove to fresh air, administer oxygen and call a physician.

Skin: Wash thoroughly with plenty of water and soap.

Ingestion: Seek a physician immediately; show MSDS or Label; DO NOT induce vomiting.

Wash soiled clothing before wearing again.

#### SECTION 6 - REACTIVITY DATA

Stable: YES

Conditions to Avoid: N/A

Incompatibility (Materials to avoid): YES, strong oxidizing agents

Hazardous Decomposition Products: YES, combustion products, see Section 4

Hazardous Polymerization: NO

Conditions to Avoid: N/A

# SECTION 7 - SPILL OR LEAK PROCEDURES

Listed in SARA Title III, #302: NO

#304, Cercla: NO

#313: YES

Steps to be taken in case material is released or spilled:

Eliminate source if safe to do so. Prevent from entering waterways and drains. Wear suitable personal protective equipment. Dike and absorb with inert material and transfer to a sealed approved container for disposal. Any spill of this material that can enter navigable waters must be reported immediately to the National Response Center (800-424-8802)

Report Quantity, Lb: N/A

Kq: N/A

TPO. Lb: N/A

Regulations: SARA, TSCA

Other: N/A

Hazard Waste: NO

NO.:

Disposal Method: In accordance with Federal, State, and Local Regulations.

*** SARA Waste Characteristic: N/A

*** EPA Hazardous Waste Number: N/A

# SECTION 8 - SAFE HANDLING AND PROTECTION INFORMATION

Respiratory Protection: Use only in well ventilated areas.

Ventilation - Local: Recommended

Special: Avoid Heat/Flame

Mechanical: Required

Other: N/A

Protective Gloves: Oil/Solvent resistant Eye Protection: Safety Glasses/Goggles Other Protective Equipment:

Oil/Solvent resistant clothing and footwear. If ventilation is inadequate, wear approved respiratory equipment.

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3

PRODUCT NAME:

EXCELON EBS

EFFECTIVE DATE:

03/03/08

SUPERCEDES DATE: 02/19/08

Estimated LD50, Mq/Kq: YES Dermal, Rabbit 2000, Oral Rat 13000

Estimated LC50, PPM: NO

Sensitization: NO

Irritant: NO

Synergistic Agents: NO

#### SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

Use only in well ventilated areas. Avoid prolonged or repeated breathing of fumes, vapor, or mist. Avoid contact with eyes and skin. DO NOT take internally. Wash thoroughly after using. In case of accident or illness, consult a physician immediately; show label and/or MSDS.

Keep out of reach of children.

Always read and follow directions on product label.

#### Other precautions:

More technical information (MSDS) available upon request. For professional industrial use only. Good personal hygiene is important. Empty containers retain residue which can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources; they may explode and cause injury or death.

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#### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.

#### D-A Lubricant

1340 W. 29th St. Indianapolis, IN 46208 317/923-5321 CHEMICAL EMERGENCY HOTLINE 800 899-9004

PRODUCT NAME:

DURAPLEX

PRODUCT DESCRIPTION: DURAPLEX, GRADES 1 AND 2

CHEMICAL FAMILY:

PETROLEUM OIL, GREASE

EFFECTIVE DATE: 01/22/09 SUPERCEDES DATE:

02/19/08

Dear Customer:

In compliance with the Superfund Amendments and Reauthorization Act (SARA Title III, Section 313), Federal Hazard Communications Regulations (WHMIS and OSHA 29 CFR 1910.1200) and in the interest of informed use of our product, we are providing you with this Material Safety Data Sheet (MSDS).

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	SE	CTION	2 - H	AZARDO	ous ind	FREDIENT	S		
COMPONENT CAS #	% WT	PEL	TLV	STEL	UNITS	LC50, PPM	LD50,MG/	KG	
PETROLEUM OILS									
64742-52-5	60-99	5	5	10	MG/M3		RATI 5000	RABA 2000	
BARIUM TALLOW FATTY	ACID COMP	LEX							
68201-19-4	10-30	0.5	0.5		MG/M3				SARA Rep.
MOLYBDENUM DISULFIDE	•								
01317-33-5	1-5	15	10		MG/M3		RATI 6500		
ZINC NAPHTHENATE									
12001-85-3	1-5								SARA Rep.

# SECTION 3 - PHYSICAL DATA

Boiling Pt Deg F/C: >500/>260

Specific Gravity: 0.89 TO 0.98

Vapor Pressure (MM HG): NIL Vapor Density (Air=1): N/A Solubility in Water: NEGLIGIBLE

% Volatile Volume: NIL Evaporation Rate: <0.1 Water/Oil Dist Coeff: 0

Appearance and Odor: Gray grease with petroleum odor

Physical State: SEMI SOLID

PH: N/A

Freeze Pt Deg F/C: N/A

Threshold Odor, PPM: N/A

Other: N/A

VOC: Lbs/Gal = N/A

Grams/Liter = N/A

Grams VOC/Gram Solid = N/A

% VOC: N/A

# SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Classification: Combustible at high temp

NFPA Rating: 0.1.0

Combustion products: CO, CO2, Smoke, Sulfur, Nitrogen, Barium, Molybdenum, Phosphorus, and

Zinc compounds.

Flash Point Deg F/C: >370/>188

LEL %: N/A UEL %: N/A

Extinguishing Media: Water Fog, Foam, Dry Chemical, CO2, Sand, or Earth.

UN/NA/PIN#: N/A

Special Fire Fighting Procedures Page 55 of 72

Page

PRODUCT NAME:

DURAPLEX

EFFECTIVE DATE:

01/22/09

SUPERCEDES DATE: 02/19/08

Firefighters should wear self-contained breathing equipment. Treat as a Class B fire. Use

water to cool threatened containers. Auto Ign. Temp Deg F/C: >500/>260

Unusual fire and explosion hazards: N/A

Explosion Power: N/A Burning Rate: Low

Impact Sensitive: No Static Sensitive: No

# SECTION 5 - HEALTH HAZARD DATA

Product Guide: TLV see Section 2

STEL: see Section 2

Routes of Entry: Skin contact, Eye, Inhalation, Ingestion

Effects of Overexposure:

Acute; may cause respiratory system, skin, and/or eye irritation.

Ingestion may cause nausea, cramps, diarrhea, and other gastrointestinal

disorders.

Chronic; excess mist may cause respiratory problems.

Excess skin contact may cause dryness.

Excess skin contact and/or ingestion may cause damage to lungs, kidneys,

heart, stomach and/or reproductive system.

Any suspected carcinogen = or >0.1%: NO

Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Emergency and First Aid Procedures

Eye: Immediately flush with water for 15 minutes and call a physician.

Inhalation: If affected, remove to fresh air, administer oxygen and call a physician.

Skin: Wash thoroughly with plenty of water and soap.

Ingestion: Seek a physician immediately, show MSDS or Label; DO NOT induce vomiting.

Wash soiled clothing before wearing again.

#### SECTION 6 - REACTIVITY DATA

Stable: YES

Conditions to Avoid: N/A

Incompatibility (Materials to avoid): YES, strong oxidizing agents Hazardous Decomposition Products: YES, pyrolysis products, CO, SOX

Hazardous Polymerization: NO

Conditions to Avoid: N/A

# SECTION 7 - SPILL OR LEAK PROCEDURES

Listed in SARA Title III, #302: NO

#304, Cercla: YES

Steps to be taken in case material is released or spilled:

Eliminate source if safe to do so. Prevent from entering waterways and drains. Wear suitable personal protective equipment. Dike and absorb with

inert material and transfer to a sealed approved container for disposal.

Report Quantity, Lb: N/A

Kg: N/A

TPQ, Lb: N/A

Regulations: SARA, CERCLA, RCRA, WHMIS

Other:

Hazard Waste: EP Toxic

No.: D005, D008

Disposal Method: In accordance with Federal, State, and Local Regulations.

#### SECTION 8 - SAFE HANDLING AND PROTECTION INFORMATION

Respiratory Protection: Use only in well ventilated areas.

Ventilation - Local: Recommended

Special: Avoid Heat/Flame

Mechanical: Required

Other: N/A

Protective Gloves: Oil/Solvent resistant Eye Protection: Safety Glasses/Goggles

Other Protective Equipment:

03/01/2011 KCR JV Page 56 of 72

Oil/Solvent resistant clothing and footwear. If ventilation is inadequate,

DURAPLEX

EFFECTIVE DATE:

PRODUCT NAME:

SUPERCEDES DATE: 02/19/08 01/22/09

wear approved respiratory equipment.

Estimated LD50, Mg/Kg: YES Dermal, Rabbit 2000, Oral Rat 5100

Estimated LC50, PPM: NO

Sensitization: NO

Irritant: NO

Synergistic Agents: NO

# SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

Use only in well ventilated areas. Avoid prolonged or repeated breathing of fumes, vapor, or mist. Avoid contact with eyes and skin. DO NOT take internally. Wash thoroughly after using. Keep away from food, drink and animal feeds. Keep only in original labeled containers. In case of accident or illness, consult a physician immediately; show label and/or MSDS. Keep out of reach of children. Always read and follow directions on label.

# Other precautions:

More technical information (MSDS) available upon request. For professional industrial use only. Good personal hygiene is most important. Empty containers retain residue which can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, spark or other ignition sources; they may explode and cause injury or death.

The information and recommendations provided herein are believed to be accurate as of the date hereof. However, such information and recommendations are provided without warranty of any kind and D-A Lubricant disclaims any and all liability or legal responsibility for use or reliance upon same.



# SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.

#### D-A Lubricant

1340 W. 29th St. Indianapolis, IN 46208 317/923-5321 CHEMICAL EMERGENCY HOTLINE 800 899-9004

PRODUCT NAME:

DTL GEAR OIL, ALL GRADES

PRODUCT DESCRIPTION: DTL GEAR OIL, ALL GRADES CHEMICAL FAMILY:

PETROLEUM OIL, GEAR OIL

EFFECTIVE DATE:

02/19/08

SUPERCEDES DATE:

03/02/05

Dear Customer:

In compliance with the Superfund Amendments and Reauthorization Act (SARA Title III, Section 313), Federal Hazard Communications Regulations (WHMIS and OSHA 29 CFR 1910.1200) and in the interest of informed use of our product, we are providing you with this Material Safety Data Sheet (MSDS).

This MSDS will be updated regularly to reflect the most recent information in our possession. Please ensure that obsolete MSDS sheets in your files for this part number are discarded.

We THANK YOU for your continued patronage and look forward to providing you with additional quality products and services.

SECTION 2 - HAZARDOUS INGREDIENTS											
COMPONENT CAS #	% WT	PEL	TLV	STEL	UNITS	LC50, PPM	LD50,MG/H	KG			
PETROLEUM OILS											
64742-65-0	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000			
64741-88-4	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000			
64742-01-4	60-99	5	5	10	MG/M3		RATI 13000	RABA 2000			
	6 <b>0</b> -9 <b>9</b>										
MOLYBDENUM DISULFIC	Œ										
01317-33-5	0.1-5	15	10		MG/M3		RATI 6500				

SECTION 3 - PHYSICAL DATA

Boiling Pt Deg F/C: >500/>260

Specific Gravity: 0.86 to 0.90

Vapor Pressure (MM HG): NIL

% Volatile Volume: NIL Evaporation Rate: <0.1

Vapor Density (Air=1): N/A Solubility in Water: NEGLIGIBLE

Water/Oil Dist Coeff: 0

Appearance and Odor: Dark Amber Fluid with Mild Petroleum Odor

Physical State: LIQUID

PH: N/A

Freeze Pt Deg F/C: N/A

Threshold Odor, PPM: N/A

Other: N/A

VOC: Lbs/Gal = N/A

Grams/Liter = N/A

Grams VOC/Grams Solid = N/A

% VOC: N/A

#### SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Classification: Combustible at high temp

NFPA Rating: 1.1.0

Combustion products: CO, CO2, Smoke, Sulfur, Nitrogen, Phosphorous, Boron and Molybdenum

Compounds.

Flash Point Deg F/C: >370/>188

LEL %: N/A % UEL %: N/A %

Extinguishing Media: Water Fog, Foam, Dry Chemical, CO2, Sand, or Earth.

UN/NA/PIN#: N/A

Special Fire Fighting Procedures

Firefighters should wear self-contained3.breathingRequipment of Treat as a Class B fire. Use water to cool threatened containers.

Page (Continued)

PRODUCT NAME:

EFFECTIVE DATE:

DTL GEAR OIL, ALL GRADES

SUPERCEDES DATE: 03/02/05

Auto Ign. Temp Deg F/C: >500/>260

Unusual fire and explosion hazards: N/A

Explosion Power: N/A Burning Rate: Low

Impact Sensitive: No Static Sensitive: No

#### SECTION 5 - HEALTH HAZARD DATA

Product guide: TLV see Section 2

STEL: see Section 2

Routes of Entry: Skin contact, Eye, Inhalation, Ingestion

Effects of Overexposure:

Acute; may cause respiratory system, skin, and/or eye irritation.

Ingestion may cause nausea, cramps, diarrhea, and other gastrointestinal disorders.

Chronic; excess mist may cause respiratory problems.

Excess skin contact may cause dryness and/or sensitization.

Any suspected carcinogen = or > 0.1%?: NO

Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Emergency and First Aid Procedures

Eye: Immediately flush with water for 15 minutes and call a physician.

Inhalation: If affected, remove to fresh air, administer oxygen and call a physician.

Skin: Wash thoroughly with plenty of water and soap.

Ingestion: Seek a physician immediately; show MSDS or Label; DO NOT induce vomiting.

Wash soiled clothing before wearing again.

#### SECTION 6 - REACTIVITY DATA

Stable: YES

Conditions to Avoid: N/A

Incompatibility (Materials to avoid): YES, strong oxidizing agents

Hazardous Decomposition Products: YES, combustion products, see Section 4

Hazardous Polymerization: NO

Conditions to Avoid: N/A

#### SECTION 7 - SPILL OR LEAK PROCEDURES

Listed in SARA Title III, #302: NO

#304, Cercla: NO

Steps to be taken in case material is released or spilled:

Eliminate source if safe to do so. Prevent from entering waterways and drains. Wear suitable personal protective equipment. Dike and absorb with inert material and transfer to a sealed approved container for disposal. Any spill of this material that can enter navigable waters must be reported

immediately to the National Response Center (800-424-8802)

Report Quantity, Lb: N/A

Kg: N/A

TPQ, Lb: N/A

Other: N/A

Hazard Waste: NO

Regulations:

Disposal Method: In accordance with Federal, State, and Local Regulations.

*** SARA Waste Characteristic: N/A

*** EPA Hazardous Waste Number: N/A

# SECTION 8 - SAFE HANDLING AND PROTECTION INFORMATION

Respiratory Protection: Use only in well ventilated areas.

Ventilation - Local: Recommended

Special: Avoid Heat/Flame

Mechanical: Required

Other: N/A

Protective Gloves: Oil/Solvent resistant Eye Protection: Safety Glasses/Goggles Other Protective Equipment:

Oil/Solvent resistant clothing and footwear. If ventilation is inadequate,

wear approved respiratory equipment.

Estimated LD50, Mg/Kg: YES Dermal, Rabbit 2000, Oral Rat 13000

Page

3

PRODUCT NAME:

DTL GEAR OIL, ALL GRADES

EFFECTIVE DATE:

02/19/08

SUPERCEDES DATE: 03/02/05

Estimated LC50, PPM: NO

Sensitization: NO

Irritant: NO

Synergistic Agents: NO

#### SECTION 9 - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:

Use only in well ventilated areas. Avoid prolonged or repeated breathing of fumes, vapor, or mist. Avoid contact with eyes and skin. DO NOT take internally. Wash thoroughly after using. In case of accident or illness, consult a physician immediately; show label and/or MSDS.

Keep out of reach of children.

Always read and follow directions on product label.

#### Other precautions:

More technical information (MSDS) available upon request. For professional industrial use only. Good personal hygiene is important. Empty containers retain residue which can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources; they may explode and cause injury or death.

The information and recommendations provided herein are believed to be accurate as of the date hereof. However, such information and recommendations are provided without warranty of any kind and D-A Lubricant disclaims any and all liability or legal responsibility for use or reliance upon same.



# CITGO No. 2 Diesel Fuel, Low Sulfur, All Grades **Material Safety Data Sheet**

**CITGO Petroleum Corporation** 

P. O. Box 4689

MSDS No.

AG2DF

Houston, TX 77210

**Revision Date** 

12/31/2007

IMPORTANT: This MSDS is prepared in accordance with 29 CFR 1910.1200. Read this MSDS before transporting, handling, storing or disposing of this product and forward this information to employees, customers and users of this product.

# **Emergency Overview**

Physical State Liquid.

Color

Transparent, clear to Odor

vellow or red.

Characteristic. kerosene-like.

#### WARNING!

Combustible liquid; vapor may cause flash fire.

Harmful or fatal if swallowed - can enter lungs and cause damage.

Can cause eye, skin or respiratory tract irritation.

May be harmful if inhaled or absorbed through the skin.

Overexposure can cause central nervous system (CNS)

depression and/or other target organ effects.

Possible Cancer Hazard (See Section 3)

Harmful to aquatic organisms.

Hazard Rankings										
	HMIS	NFPA								
Health Hazard	* 2	0								
Fire Hazard	2	2								
Reactivity	0	0								
* = Chronic Healt	h Hazard									

# **Protective Equipment**

Minimum Recommended See Section 8 for Details





# SECTION 1. PRODUCT IDENTIFICATION

**Trade Name** CITGO No. 2 Diesel Fuel, Low Sulfur, All Grades

**Technical Contact** 

(832) 486-5940

**Product Number** 

Various

**Medical Emergency** 

(United States Only)

(832) 486-4700

**CAS Number** 

68476-34-6

**CHEMTREC Emergency** 

(800) 424-9300

**Product Family** 

Motor fuels.

Synonyms

No. 2-D Grade Diesel Fuel Oil (defined by ASTM D-975); Treated or Refined Diesel Fuel No.

2; Diesel No. 2; Diesel Motor Fuel No. 2; Diesel Oil (Medium); Grade 2 Distillate Fuel;

Hydrodesulfurized (HDS) Light Catalytically Cracked Distillate; Middle Distillates (Petroleum); HDS Diesel; Hydrodesulfurized Medium Distillate; HDS Middle Distillate; C9-C16 Petroleum

Hydrocarbons; Ultra Low Sulfur Diesel.

# SECTION 2. COMPOSITION

This product may be composed, in whole or in part, of any of the following refinery streams:

Diesel Fuel No. 2 [CAS No.: 68476-34-6]

Hydrodesulfurized Middle Distillate (petroleum) [CAS No.: 64742-80-9]

Hydrodesulfurized Light Catalytic Cracked Distillate (Petroleum) [CAS No.: 68333-25-5]

Kerosene [CAS No.: 8008-20-6]

Hydrodesulfurized Kerosine (Petroleum) [CAS No.: 64742-81-0]

This product contains the following chemical components:

Component Name(s)

CAS Registry No.

Concentration (%)

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Nonane, all isomers	Mixture	1 - 10
Trimethylbenzenes, all isomers	25551-13-7	0 - 2
Naphthalene	91-20-3	0 - 2
Cumene	98-82-8	0 - 1
Ethylbenzene	100-41-4	0 - 1

# SECTION 3. HAZARDS IDENTIFICATION

Also see Emergency Overview and Hazard Ratings on the top of Page 1 of this MSDS.

Major Route(s) of Entry Skin contact. Inhalation.

# Signs and Symptoms of Acute Exposure

Inhalation Breathing high concentrations may be harmful. Mist or vapor can irritate the throat and lungs.

Breathing this material may cause central nervous system depression with symptoms including nausea, headache, dizziness, fatique, drowsiness, or unconsciousness,

**Eve Contact** This material can cause eye irritation with tearing, redness, or a stinging or burning feeling.

Further, it can cause swelling of the eyes with blurred vision. Effects may become more

serious with repeated or prolonged contact.

**Skin Contact** This material can cause skin irritation. Symptoms include redness, itching, and burning of

the skin. This material can be absorbed by the skin and produce central nervous system depression (headache, nausea, fatigue and/or other symptoms including unconsciousness). If the skin is damaged, absorption increases. Prolonged and/or repeated contact may cause severe dermatitis and/or more serious skin disorders. Chronic symptoms may include

drying, swelling, scaling, blistering, cracking, and/or severe tissue damage.

Ingestion If swallowed, this material may irritate the mouth, throat, and esophagus. It can be absorbed

into the blood stream through the stomach and intestinal tract. Symptoms may include a burning sensation of the mouth and esophagus, nausea and vomiting. In addition, it can cause central nervous system effects characterized by dizziness, staggering, drowsiness,

delirium and/or loss of consciousness.

Because of the low viscosity, this material can enter the lungs directly by aspiration during swallowing or subsequent vomiting. Aspiration of a small amount of liquid can cause severe

lung damage and/or death.

Summary

Chronic Health Effects Secondary effects of ingestion and subsequent aspiration into the lungs may cause

pneumatocele (lung cavity) formation and chronic lung dysfunction.

This product contains petroleum middle distillates similar to those shown to produce skin tumors on laboratory rodents following repeated application. All tumors appeared during the latter portion of the typical 2-year lifespan of the animals. Certain studies have shown that washing the exposed skin of the test animal with soap and water between treatments greatly reduces the potential tumorigenic effects. These data suggest that good personal hydiene is effective in reducing the risk of this potential adverse health effect.

This material and/or its components have been associated with developmental toxicity. reproductive toxicity, genotoxicity, immunotoxicity, and/or carcinogenicity. Refer to Section 11 of this MSDS for additional health-related information.

**Conditions Aggravated** by Exposure

Disorders of the following organs or organ systems that may be aggravated by significant exposure to this material or its components include: Skin, Respiratory System, Liver,

Kidneys, Central Nervous System (CNS)

**Target Organs** May cause damage to the following organs; kidneys, lungs, liver, mucous membranes, upper

respiratory tract, skin, central nervous system (CNS), eye, lens or cornea

Carcinogenic Potential

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Continued on Next Page

Page Number: 2

This material may contain ethylbenzene and naphthalene at concentrations above 0.1%. IARC has identified ethylbenzene and naphthalene as possibly carcinogenic to humans (Group 2B) based on laboratory animal studies. The NTP has determined that naphthalene is *reasonably anticipated to be a human carcinogen* based on sufficient evidence from studies in experimental animals. NTP has determined that exposure to diesel exhaust particulates, a complex mixture of combustion products of diesel fuel, is reasonably anticipated to be a human carcinogen.

OSHA Hazard the product d 1910.1200).	l Classific oes not e	ation is ind xhibit the h	icated azard	l by an "X" in the as defined in the	box ac OSHA	ljacent to the haz Hazard Commun	ard title ication	e. If no "X" is _l Standard (29	oresent, CFR				
OSHA Hea	ith Hazard	Classification _		OSHA Physical Hazard Classification									
Irritant X Toxic Corrosive	Sensiti	Toxic		Combustible Flammable Compressed Gas	X	Explosive Oxidizer Organic Peroxide		Pyrophoric Water-reactive Unstable					
SECTION 4. FIRST AID MEASURES  Take proper precautions to ensure your own health and safety before attempting rescue or providing first aid													
Take proper p	orecaution cific infor	ns to ensure mation, refe	your er to E	own health and xposure Contro	safety i s and F	before attempting Personal Protection	rescue on in Se	or providing ection 8 of this	first aid MSDS.				
Inhalation Move victim to fre breathing is diffici			esh air. If victim is not breathing, immediately begin rescue breathing. If oult, 100 percent humidified oxygen should be administered by a qualified medical attention immediately. Keep the affected individual warm and at										
Eye Contact		least 15 mi	nutes v	while occasionally	lifting ar	h eyes with cool, cle nd lowering eyelids. dical attention if exc	Do not	use eye ointme	nt				
Skin Contact		If skin surfa ointments.	ace is o	inated shoes and clothing. Flush affected area with large amounts of water. damaged, apply a clean dressing and seek medical attention. Do not use in surface is not damaged, clean affected area thoroughly with mild soap and dical attention if tissue appears damaged or if pain or irritation persists.									
Ingestion		knees. If v anything by	ictim is / mout	omiting. If spontaneous vomiting is about to occur, place victim's head below is drowsy or unconscious, place on the left side with head down. Never give uth to a person who is not fully conscious. Do not leave victim unattended. Itention immediately.									
distress. If cough				halation overexposure can produce toxic effects. Monitor for respiratory or difficulty in breathing develops, evaluate for upper respiratory tract nchitis, and pneumonitis. Administer supplemental oxygen with assisted uired.									
pneumonitis hazar and/or gastric lava				rgested, this material presents a significant aspiration and chemical rd. Induction of emesis is not recommended. Consider activated charcoal age. If patient is obtunded, protect the airway by cuffed endotracheal accement of the body in a Trendelenburg and left lateral decubitus position.									

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# SECTION 5. FIRE FIGHTING MEASURES

NFPA Flammability Classification

NFPA Class-II combustible liquid.

**Flash Point** 

Closed cup: AP 52°C (AP 125°F), (Pensky-Martens.)

Lower Flammable Limit AP 0.6 %

Upper Flammable Limit AP 7.5 %

Autoignition **Temperature** 

>254°C (>489°F)

**Products** 

Hazardous Combustion Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and oxides of

sulfur and nitrogen.

**Special Properties** Combustible Liquid! This material releases vapors when heated above ambient

temperatures. Vapors can cause a flash fire. Vapors can travel to a source of ignition and flashback. A vapor and air mixture can create an explosion hazard in confined spaces such as sewers. Use only with adequate ventilation. If container is not properly cooled, it can

rupture in the heat of a fire.

**Extinguishing Media** SMALL FIRE: Use dry chemicals, carbon dioxide, foam, or inert gas (nitrogen). Carbon

dioxide and inert gas can displace oxygen. Use caution when applying carbon dioxide or

inert gas in confined spaces.

LARGE FIRE: Use foam, water fog, or water spray. Water fog and spray are effective in cooling containers and adjacent structures. However, water can cause frothing and/or may not extinguish the fire. Water can be used to cool the external walls of vessels to prevent excessive pressure, autoignition or explosion. DO NOT use a solid stream of water directly

on the fire as the water may spread the fire to a larger area.

**Protection of Fire Fighters** 

Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles. Cover pooling liquid with foam. Containers can build pressure if exposed to radiant heat; cool adjacent containers with flooding quantities of water until well after the fire is out. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of vessels, tanks, or pipelines. Be aware that burning liquid will float on water. Notify appropriate authorities of potential fire and explosion hazard if liquid enter sewers or waterways.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For more specific information, refer to the Emergency Overview on Page 1, Exposure Controls and Personal Protection in Section 8 and Disposal Considerations in Section 13 of this MSDS.

> Combustible Liquid! Release can result in a fire hazard. Evacuate all non-essential personnel from release area. Establish a regulated zone with site control and security. Eliminate all ignition sources. Stop the leak if it can done without risk. A vapor-suppressing foam may be used to reduce vapors. Properly bond or ground all equipment used when handling this material. Avoid skin contact. Do not walk through spilled material. Verify that responders are properly trained and wearing appropriate personnel protective equipment. Dike far ahead of a liquid spills. Do not allow released material to entry waterways, sewers, basements, or confined areas. This material will float on water. Absorb or cover with dry earth, sand or other non-combustible material. Use clean, non-sparking tools to collect absorbed material. Place spent sorbent materials, free liquids and other clean-up debris into proper waste containers for appropriate disposal. Certain releases must be reported to the National Response Center (800/424-8802) and state or regulatory authorities. Comply with all laws and regulations.

> > 03/01/2011 KCR JV Page 64 of 72

# **SECTION 7. HANDLING AND STORAGE**

# Handling

# **Combustible Liquid!**

A static electrical charge can accumulate when this material is flowing through pipes, nozzles or filters and when it is agitated. A static spark discharge can ignite accumulated vapors particularly during dry weather conditions. Always bond receiving containers to the fill pipe before and during loading. Always keep nozzle in contact with the container throughout the loading process. Do not fill any portable container in or on a vehicle. Special precautions, such as reduced loading rates and increased monitoring, must be observed during "switch loading" operations (i.e., loading this material in tanks or shipping compartments that previously containing gasoline or similar low flash point products).

Fire hazard increases as product temperature approaches its flash point. Keep container closed and drum bungs in place. Remove spillage immediately from walking areas. Do not handle or store near heat, sparks or other potential ignition sources. Do not handle or store with oxidizing agents. Avoid breathing mist or vapor. Never siphon by mouth. Do not taste or swallow. Avoid contact with eyes, skin and clothing. Use gloves constructed of impervious materials and protective clothing if direct contact is anticipated. Provide ventilation to maintain exposure potential below applicable exposure levels. Avoid water contamination. Wash thoroughly after handling. Prevent contact with food or tobacco products.

When performing repairs and maintenance on contaminated equipment, keep unnecessary persons from hazard area. Eliminate heat, flame and other potential ignition sources. Drain and purge equipment, as necessary, to remove material residues. Remove contaminated clothing. Wash exposed skin thoroughly with soap and water after handling.

Do not use this material as fuel for equipment, such as portable heaters, in enclosed areas. Hazardous combustion products can cause death.

Protect the environment from releases of this material. Prevent discharges to surface waters and groundwater. Maintain handling, transfer and storage equipment in proper working order.

Misuse of empty containers can be dangerous. Empty containers may contain material residues which can ignite with explosive force. Cutting or welding of empty containers can cause fire, explosion, or release of toxic fumes from residues on not pressurize or expose empty containers to open flame, sparks, or heat. Keep container closed and drum bungs in place. All label warnings and precautions must be observed. Return empty drums to a qualified reconditioner. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling, or disposing of empty containers and/or waste residues of this material.

#### Storage

Store in a cool, dry, well-ventilated place. Keep containers tightly closed. Do not store this product near heat, flame or other potential ignition sources. Do not store with oxidizers. Do not store this product in unlabeled containers. Do not puncture or incinerate containers. Ground all equipment containing this material. All electrical equipment in areas where this material is stored or handled must meet all applicable requirements of the NFPA's National Electrical Code (NEC). Store and transport in accordance with all applicable laws.

# SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

# **Engineering Controls**

Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. All electrical equipment should comply with the National Electric Code. An emergency eye wash station and safety shower should be located near the work-station.

# Personal Protective Equipment

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations. The following pictograms represent the minimum requirements for personal protective equipment. For certain operations, additional PPE may be required.

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MSDS No. AG2DF Revision Date 12/31/2007 Continued on Next Page Page Number: 5



**Eye Protection** 

Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. Chemical goggles should be worn during transfer operations or when there is a likelihood of misting, splashing, or spraying of this material. A suitable emergency eye wash water and safety shower should be located near the work station.

Hand Protection

Avoid skin contact. Use heavy duty gloves constructed of chemical resistant materials such as Viton® or heavy nitrile rubber. Wash hands with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities or leaving work. DO NOT use gasoline, kerosene, solvents or harsh abrasives as skin cleaners.

**Body Protection** 

Avoid skin contact. Wear long-sleeved fire-retardant garments (e.g., Nomex®) while working with flammable and combustible liquids. Additional chemical-resistant protective gear may be required if splashing or spraying conditions exist. This may include an apron. boots and additional facial protection. If product comes in contact with clothing, immediately remove soaked clothing and shower. Promptly remove and discard contaminated leather goods.

Respiratory Protection Airborne concentration will determine the level of respiratiory protection required. Respiratory protection is normally not required unless the product is heated or misted. For known or anticipated vapor or mist concentrations above the occupational exposure guidelines (see below), use a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter if adequate protection is provided. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).

**General Comments** 

Warning! Use of this material in spaces without adequate ventilation may result in generation of hazardous levels of combustion products and/or inadequate oxygen levels for breathing. Odor is an inadequate warning for hazardous conditions.

Applicable Workplace Exposure Levels

#### Occupational Exposure Guidelines

Substance

ACGIH (United States). Nonane, all isomers TWA: 200 ppm 8 hour(s).

Not available. Ethylmethylbenzene, all isomers

Trimethylbenzenes, all isomers **ACGIH (United States).** 

TWA: 25 ppm 8 hour(s).

ACGIH (United States). Skin Naphthalene TWA: 10 ppm 8 hour(s).

STEL: 15 ppm 15 minute(s). OSHA (United States). TWA: 10 ppm 8 hour(s). ACGIH (United States).

TWA: 50 ppm 8 hour(s). OSHA (United States). Skin TWA: 50 ppm 8 hour(s).

Not available.

Not available.

**ACGIH (United States).** 

TWA: 100 ppm 8 hour(s). STEL: 125 ppm 15 minute(s). **OSHA (United States).** TWA: 100 ppm 8 hour(s).

Xylene, all isomers

n-Propylbenzene 1, 2, 4 Trimethylbenzene

Ethylbenzene

Cumene

**ACGIH (United States).** TWA: 100 ppm 8 hour(s). STEL: 150 ppm 15 minute(s). **OSHA (United States).** TWA: 100 ppm 8 hour(s).

Not available.

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Diesel exhaust particulate

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Benzene

Toluene

ACGIH (United States). Skin

TWA: 0.5 ppm 8 hour(s). STEL: 2.5 ppm 15 minute(s).

OSHA (United States). Skin Notes: See Table Z-2 for exclusions

in 20 CFR 1910.1028 to the PEL.

TWA: 1 ppm 8 hour(s). STEL: 5 ppm 15 minute(s). ACGIH (United States). Skin TWA: 20ppm 8 hour(s).

OSHA (United States). TWA: 200 ppm 8 hour(s).

CEIL: 300 ppm PEAK: 500 ppm Not available.

Middle distillates, petroleum

Straight-run middle distillate (petroleum)

ACGIH (United States, 1998). Skin

TWA: 100 mg/m³

Distillates, petroleum, light catalytic cracked

Kerosene

Not available.
NIOSH REL (United States).

TWA: 100 mg/m³ 8 hour(s).

Hydrodesulfurized middle distillate (petroleum)
Hydrodesulfurized Kerosine (Petroleum)
Distillates, petroleum, hydrodesulfurized light

catalytic cracked Diesel Fuel No. 2 Not available. Not available. Not available.

ACGIH TLV (United States). Skin

TWA: 100 mg/m³ 8 hour(s).

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

Physical State

Liquid.

Color

Transparent, clear

Odor

Characteristic, kerosene-like.

**Specific Gravity** 

AP 0.84 (Water =

Hq

to yellow or red. Not Applicable.

Vapor Density AP 5 (Air = 1)

**Boiling Range** 

154° C (309° F) to 371° C (700° F)

Melting/Freezing

Not available.

Vapor Pressure

<0.3 kPa (<2 mm Hg) (at 20°C)

Point Volatility

840 g/I VOC (w/v)

Solubility in Water

w/w)

Very slightly soluble in cold water. (<0.1 %

Viscosity (cSt @ 40°C) AP 3

Flash Point

Closed cup: AP 52°C (AP 125°F). (Pensky-Martens.)

Additional

Density = AP 7.0 lbs/gal.

**Properties** 

Viscosity (ASTM D2161) = 30 - 40 SUS @ 100° F

# **SECTION 10. STABILITY AND REACTIVITY**

**Chemical Stability** 

Stable.

Hazardous Polymerization Not expected to occur.

**Conditions to Avoid** 

Keep away from all ignition sources and strong oxidizing conditions.

Materials Incompatibility Strong acids, alkalies, and oxidizers such as liquid chlorine, other halogens, hydrogen

peroxide and oxygen.

Hazardous
Decomposition
Products

No additional hazardous decomposition products were identified other than the combustion

products identified in Section 5 of this MSDS.

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### CITGO No. 2 Diesel Fuel, Low Sulfur, All Grades

### SECTION 11. TOXICOLOGICAL INFORMATION

For other health-related information, refer to the Emergency Overview on Page 1 and the Hazards Identification in Section 3 of this MSDS.

**Toxicity Data** 

Diesel Fuel, No. 2

ORAL LD50, Acute: 12,000 to 17,500 mg/kg or 9.0 ml/kg [Rat] DERMAL LD50, Acute: >5.0 ml/kg [Rabbit screen level].

DRAIZE EYE, Acute: Mild irritant [Rabbit]

DRAIZE DERMAL, Acute: Severe skin irritant [Rabbit]. BUEHLER DERMAL, Acute: Non-sensitizing [Guinea Pig]

14-Day DERMAL, Sub-chronic: 0% and 67% mortality at 4.0 and 8.0 ml/kg [Rabbit] 62-Week DERMAL, Chronic: 0.05 ml/kg 3x/week [Mouse] - Extreme skin irritation. 97-Week DERMAL, Chronic: 243 g/kg applied 3x/week [Mouse] - Extreme skin irritation.

Moderate increase in contact-point skin tumors.

MUTAGENICITY:

Modified Ames Assay: Negative. [Salmonella typhimurium] In-vitro SCE Ovary Assay: Negative. [Chinese Hamster]

In-vitro Lymphoma Assay: Negative. [Mouse] In-vivo Dominant Lethal Assay: Negative. [Mouse]

In-vivo Bone Marrow Assay: Clastogenic at 2.0 ml/kg and 6.0 ml/kg [Rat]

#### Diesel exhaust particulate

Lung tumor and lymphomas were identified in rats and mice exposed to unflitered diesel fuel exhaust in chronic inhalation studies. Further, epidemiological studies have identified increase incidences of lung cancer in US railroad workers and bladder cancer in bus and truck drivers possibly associated with exposure to diesel engine exhaust. NTP has determined that exposure to diesel exhaust particulates, a complex mixture of combustion products of diesel fuel, is reasonably anticipated to be a human carcinogen. In addition, NIOSH has identified complete diesel exhaust as a potential carcinogen.

#### Trimethylbenzenes, all isomers

Studies of Workers:

Levels of total hydrocarbon vapors present in the breathing atmosphere of these workers ranged from 10 to 60 ppm. The TCLo for humans is 10 ppm, with somnolence and respiratory tract irritation noted.

#### Studies in Laboratory Animals:

In inhalation studies with rats, four of ten animals died after exposures of 2400 ppm for 24 hours. An oral dose of 5 mL/kg resulted in death in one of ten rats. Minimum lethal intraperitoneal doses were 1.5 to 2.0 mL/kg in rats and 1.13 to 12 mL/kg in guinea pigs. Mesitylene (1, 3, 5 Trimethylbenzene) inhalation at concentrations of 1.5, 3.0, and 6.0 mg/L for six hours was associated with dose-related changes in white blood cell counts in rats. No significant effects on the complete blood count were noted with six hours per day exposure for five weeks, but elevations of alkaline phosphatase and SGOT were observed. Central nervous system depression and ataxia were noted in rats exposed to 5,100 to 9,180 ppm for two hours.

#### Naphthalene

Studies in Humans Overexposed to Naphthalene:

Severe jaundice, neurotoxicity (kernicterus) and fatalities have been reported in young children and infants as a result of hemolytic anemia from over-exposure to naphthalene. Persons with Glucose 6-phosphate dehydrogenase (G6PD) deficiency are more prone to the hemolytic effects of naphthalene. Adverse effects on the kidney have also been reported from over-exposure to naphthalene but these effects are believed to be a consequence of hemolytic anemia, and not a direct effect.

#### Studies in Laboratory Animals:

Hemolytic anemia has been observed in laboratory animals exposed to naphthalene.

Laboratory rodents exposed to naphthalene vapor for 2 years (lifetime studies) developed non-neoplastic and neoplastic tumors and inflammatory lesions of the nasal and respiratory

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### CITGO No. 2 Diesel Fuel, Low Sulfur, All Grades

tract. Cataracts and other adverse effects on the eye have been observed in laboratory animals exposed to high levels of naphthalene. Findings from a large number of bacterial and mammalian cell mutation assays have been negative. A few studies have shown chromosomal effects (elevated levels of Sister Chromatid Exchange or chromosomal aberrations) in vitro.

### Ethylbenzene

Effects from Acute Exposure:

ORAL (LD50), Acute: 3,500 mg/kg [Rat]. DERMAL (LD50), Acute: 17,800 uL/kg [Rabbit].

INTRAPERITONEAL (LD50), Acute: 2,624 mg/kg [Rat].

Effects from Prolonged or Repeated Exposure:

Findings from a 2-year inhalation study in rodents conducted by NTP were as follows: Effects were observed only at the highest exposure level (750 ppm). At this level the incidence of renal tumors was elevated in male rats (tubular carcinomas) and female rats (tubular adenomas). Also, the incidence of tumors was elevated in male mice (alveolar and bronchiolar carcinomas) and female mice (hepatocellular carcinomas). IARC has classified ethyl benzene as "possibly carcinogenic to humans" (Group 2B). Studies in laboratory animals indicate some evidence of post-implantation deaths following high levels of maternal exposure. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals indicate limited evidence of renal malformations, resorptions, and developmental delays following high levels of maternal exposure. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals indicate some evidence of adverse effects on the liver, kidney, thyroid, and pituitary gland.

Middle distillates, petroleum

Long-term repeated (lifetime) skin exposure to similar materials has been reported to result in an increase in skin tumors in laboratory rodents. The relevance of these findings to humans is not clear at this time.

## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### Freshwater Toxicity:

Concentration: 2400 ppm Exposure: 48 hrs. Species: Juven. Am. Shad ( Squalius

cephalus) Assay: TLM

Concentration: >127 ppm Exposure: 96 hrs. Species: Bluegill (Lepomis macrochirus)

Assay: LC50

Saltwater Toxicity

Concentration: 10 ppm Exposure: 96 hrs. Species: Menhaden (Brevoortia patronus)

Assay: LC50

Concentration: 10 ppm Exposure: 96 hrs. Species: Grass Shrimp Assay: LC50

### **Environmental Fate**

If spilled, this material will normally evaporate. Hydrocarbon components may contribute to atmospheric smog. If released to the subsoils, petroleum middle distillate fuels will strongly adsorb to soils. Groundwater should be considered as an exposure pathway. Liquid and vapor can migrate through the subsurface and preferential pathways (such as utility line backfill) to downgradient receptors.

Middle distillates are potentially toxic to freshwater and saltwater ecosystems. Distillate fuels will normally float on water. In stagnant or slow-flowing waterways, a hydrocarbon layer can cover a large surface area. As a result, this oil layer can limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway can cause a fish kill or create an anaerobic environment. Also, this coating action can also kill plankton, algae, and water birds.

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

Maximize material recovery for reuse or recycling. Recovered non-usable material may be regulated by US EPA as a hazardous waste due to its ignitibility (D001) and/or its toxic (D018) characteristics. In addition, conditions of use may cause this material to become a hazardous waste, as defined by Federal or State regulations. It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Transportation, treatment, storage, and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR Parts 260 through 271). Contact your regional US EPA office for guidance concerning case specific disposal issues. State and/or local regulations might be even more restrictive.

### **SECTION 14. TRANSPORT INFORMATION**

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

**US DOT Status** 

A U.S. Department of Transportation (DOT) regulated material. The following U.S. DOT hazardous materials shipping description applies to bulk packaged material that is transported by highway or rail. Alternate shipping descriptions may be required for product transported by marine vessel, air or other method and for non-bulk packaged material.

**Proper Shipping Name** 

Diesel Fuel, Combustible liquid, NA1993, PG III

**Hazard Class** 

DOT Class: Combustible liquid with a flash Packing Group

point greater than 37.8°C (100°F).

UN/NA Number NA 1993

**Reportable Quantity** 

A Reportable Quantity (RQ) has not been established for this material.

Placard(s)



**Emergency Response** 

Guide No.

**MARPOL III Status** 

128

Not a DOT "Marine Pollutant" per 49 CFR

171.8.

### SECTION 15. REGULATORY INFORMATION

TSCA Inventory This product and

This product and/or its components are listed on the Toxic Substances Control Act (TSCA)

inventory.

SARA 302/304 Emergency Planning and Notification The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No

components were identified.

SARA 311/312 Hazard Identification

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories:

fire. Acute (Immediate) Health Hazard, Chronic (Delayed) Health Hazard

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### CITGO No. 2 Diesel Fuel, Low Sulfur, All Grades

SARA 313 Toxic Chemical Notification and Release Reporting This product contains the following components in concentrations above *de minimis* levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA:

Naphthalene [CAS No.: 91-20-3] Concentration: 2% Ethylbenzene [CAS No.: 100-41-4] Concentration: 0.9%

**CERCLA** 

The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or

refinery stream that may be subject to this statute are:
Naphthalene [CAS No.: 91-20-3] RQ = 100 lbs. (45.36 kg) Concentration: 2%
Cumene [CAS No.: 98-82-8] RQ = 5000 lbs. (2268 kg) Concentration: 0.9%
Ethylbenzene [CAS No.: 100-41-4] RQ = 1000 lbs. (453.6 kg) Concentration: 0.9%

Ethylbenzene [CAS No.: 100-41-4] RQ = 1000 lbs. (453.6 kg) Concentration: 0.9% Xylene, all isomers [CAS No.: 1330-20-7] RQ = 100 lbs. (45.36 kg) Concentration: 0.9%

Benzene [CAS No.: 71-43-2] RQ = 10 lbs. (4.536 kg) Concentration: 0.045%

Clean Water Act (CWA)

This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

California
Proposition 65

This material may contain the following components which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

Diesel exhaust particulate

Naphthalene: <2% Ethylbenzene: <1% Toluene: <0.1% Benzene: <0.1%

New Jersey Right-to-Know Label **Diesel Fuel** 

**Additional Remarks** 

As minimum requirements, CITGO recommends that the following advisory information be displayed on equipment used to dispense diesel fuel. Additional warnings specified by various regulatory authorities may be required: "Diesel Fuel DANGER: Combustible Liquid. Use as a Motor Fuel Only. DO NOT FILL CONTAINERS THAT HAVE PREVIOUSLY CONTAINED GASOLINE OR OTHER FLAMMABLE LIQUIDS. Sparks From static electricity can ignite flammable vapor residues. PLACE CONTAINER ON GROUND. DO NOT FILL ANY PORTABLE CONTAINER IN OR ON A VEHICLE. Containers must be metal or other material approved for storing diesel fuel. Keep nozzle spout in contact with the container during the entire filling operation. NO SMOKING! Do not leave nozzle unattended during filling. HARMFUL OR FATAL IF SWALLOWED If swallowed, do not induce vomiting. Call Physician Immediately. Keep Out of Reach of Children. Avoid prolonged breathing of vapors. Never siphon by mouth. Do not store in vehicle or living space. Store and use in a well ventilated area. Do not use near heat, spark or flame. Keep container closed."

## **SECTION 16. OTHER INFORMATION**

Refer to the top of Page 1 for the HMIS and NFPA Hazard Ratings for this product.

**REVISION INFORMATION** 

Version Number

5.1

**Revision Date** 

12/31/2007

**ABBREVIATIONS** 

AP: Approximately EQ: Equal >: Greater Than <: Less Than NA: Not Applicable ND: No Data NE: Not Establishe

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### CITGO No. 2 Diesel Fuel, Low Sulfur, All Grades

ACGIH: American Conference of Governmental Industrial Hygienists

IARC: International Agency for Research on Cancer

NIOSH: National Institute of Occupational Safety and Health

NPCA: National Paint and Coating Manufacturers Association

NFPA: National Fire Protection Association

AIHA: American Industrial Hygiene Association

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

HMIS: Hazardous Materials Information System

**EPA: US Environmental Protection Agency** 

#### **DISCLAIMER OF LIABILITY**

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***** END OF MSDS *****

From: James Kassouf [jkassouf@creqcc.com]
Sent: Tuesday, March 01, 2011 7:58 PM

To: Woodard, Dawn (DEQ)
Cc: Miller, Mark (DEQ)

Subject: RE: Petroleum Contaminated Water at KCR/Joint Venture Site

Attachments: KCR VPDES Permit Application.zip

Ms. Woodard, Mark Miller asked that I forward you the attached permit, I apologize for the delay. Please see attached. Thank you for your time,

> James R. Kassouf KCR Joint Venture 11654 Plaza America Drive, # 177 Reston, VA 20190-4700 (216) 409-7509 Mobile (216) 395-0101Fax JKassouf@CREQCC.com

Owner: Fairfax County Water Authority Title: Corbalis to Fox Mill 54" Water Main

Project: 1859/4 Contract No: 4500000646

From: Miller, Mark (DEQ) [mailto:Mark.Miller@deq.virginia.gov]

Sent: Wednesday, February 23, 2011 3:31 PM

To: James Kassouf

Cc: Glassman, Joseph (DEQ); Woodard, Dawn (DEQ)

Subject: RE: Petroleum Contaminated Water at KCR/Joint Venture Site

James,

Item 7 is no. A Site Characterization Report has not been completed for the property.

For item 15, just a general topographic map of the area will suffice. It does not matter if the unnamed tributary to Sugarland Run is not illustrated on the map.

For item 16, this is if sanitary sewage is readily available in the area. Are your facilities connected to a sanitary sewage line? If so, it may be possible to discharge the water to the sanitary sewage collection system. However, you would need to contact the Fairfax Co Waste Water Collection Division relative to discharge to the collection system. The county contact for this is Joel King at 703 550 9740 ext 317.

Please let me know if you have any other questions.

Mark L. Miller - Pollution Response Program Virginia Department of Environmental Quality - NRO 13901 Crown Court, Woodbridge, VA 22193 Ph. 703-583-3864; Fax 703-583-3821 E-mail: Mark. Miller @deq. virginia.gov www.deq. virginia.gov/prep/ From: James Kassouf [mailto:jkassouf@creqcc.com] Sent: Wednesday, February 23, 2011 2:32 PM

To: Miller, Mark (DEQ)

Subject: RE: Petroleum Contaminated Water at KCR/Joint Venture Site

Mr. Miller,

I hope this finds you well.

We are awaiting the results of water analysis test from both Atlas & A third party. I have the following questions:

- a. Item 7. I do not know how to answer this.
- b. Item 15. The stream that our runoff is entering is not shown on this map. How do I proceed?
- c. Item 16 We believe this was researched by our previous superintendent however there is no record of any permit applications. Given that we may have a runoff issue is it possible to obtain both permits?
- d. More to follow.....

Please call with any resposes or questions. Thank you for your time,

James R. Kassouf KCR Joint Venture 11654 Plaza America Drive, # 177 Reston, VA 20190-4700 (216) 409-7509 Mobile (216) 395-0101Fax

<u>JKassouf@CREQCC.com</u>

Owner: Fairfax County Water Authority Title: Corbalis to Fox Mill 54" Water Main Project: 1859/4

Project: 1859/4 Contract No: 4500000646

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From: Miller, Mark (DEQ) [mailto:Mark.Miller@deq.virginia.gov]

**Sent:** Monday, February 14, 2011 2:55 PM **To:** James Kassouf; Jim Foley; Jared Leute

Cc: Glassman, Joseph (DEQ); Woodard, Dawn (DEQ); fmendler@fairfaxwater.org

Subject: Petroelum Contaminated Water at KCR/Joint Venture Site

Mr. Kassouf, attached is the General Permit Registration Statement for Discharges from Petroleum Contaminated Sites. Please complete the attached statement and return it to the DEQ Regional Office at:

Virginia Department of Environmental Quality – Northern Regional Office 13901 Crown Court, Woodbridge, VA 22193 Fax 703-583-3821 Attn: Dawn Woodard E-mail:dawn.woodard@deq.virginia.gov 703 583-3899

Please call myself, Dawn Woodard, or Joe Glassman (703-583-3808), with any questions regarding the permit application.

Mark L. Miller - Pollution Response Program Virginia Department of Environmental Quality - NRO 13901 Crown Court, Woodbridge, VA 22193 Ph. 703-583-3864; Fax 703-583-3821 E-mail: Mark. Miller @deq.virginia.gov www.deq.virginia.gov/prep/

From: Woodard, Dawn (DEQ)

**Sent:** Friday, March 04, 2011 2:06 PM

To: 'James Kassouf'

**Subject:** RE: KCR Joint Venture Permit application 1 of 2

Thank you for the revision. Everything seems to be in order so, as soon as I receive the original I will issue the permit. Once it's issued, I will e-mail a copy to you then snail-mail the original (via certified mail).

In the meantime, feel free to contact me if you have any questions.

## Have a great weekend!

# Dawn M. Woodard

Environmental Specialist I / Database Manager Department of Environmental Quality Northern Regional Office - Remediation Division (703) 583-3899 office (703) 583-3821 fax

NEW EMAIL: dawn.woodard@deg.virginia.gov

From: James Kassouf [mailto:jkassouf@creqcc.com]

**Sent:** Friday, March 04, 2011 11:38 AM

To: Woodard, Dawn (DEQ)

Subject: KCR Joint Venture Permit application 1 of 2

### Dawn,

Please see the revised application attached. We will overnight an original to you.

Please let me know if there are any other issues encountered. We appreciate all of your assistance on this matter.

### Attached Part 1, 3 and 4

Thank you for your time,

## James R. Kassouf

Kassouf & Clinton Road Joint Venture 11654 Plaza America Dr., # 177 Reston, VA 20190 (216) 409-7509 Mobile (216) 395-0101Fax JKassouf@CREQCC.com



#### -PROJECT-

Owner: Fairfax County Water Authority Title: Corbalis to Fox Mill 54" Water Main

Project: 1859/4

Contract No: 4500000646

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From: Glassman, Joseph (DEQ)

Sent: Thursday, March 03, 2011 2:44 PM

To: Woodard, Dawn (DEQ)

**Subject:** FW: Registration statement needing your approval

Attachments: CorbalisToFoxMill EvalCklst.doc

### Recommend No. 3 – unleaded gas and other.

Joe Glassman
Environmental Specialist
Petroleum Remediation Section
Virginia Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193
703-583-3808
703-583-3821 (fax)

From: Woodard, Dawn (DEQ)

Sent: Thursday, March 03, 2011 1:33 PM

To: Glassman, Joseph (DEQ)

Subject: Registration statement needing your approval

Joe.

This is for the site Mark Miller has been talking to us about. You can access the Registration Statement and supporting documentation at: <u>U:\REMEDIAT\General_Permit\2008 General</u> Permit\Application temp docs\KCR-JointVentureSite.

As you can see from my e-mail below, I have requested some additional information. I don't think that additional information will affect your ability to review this registration statement.

What contaminants should they monitor for:

- Unleaded gas only;
- 2. Unleaded gas and leaded gas;
- 3. Unleaded gas and other petroleum products (ex: diesel, used oil, etc.);
- 4. All of the above: Unleaded gas, leaded gas and other petroleum products?

If you need to see what parameters are included on the different DMRs, you can view them at: <u>U:\REMEDIAT\General_Permit\2008 General Permit\Form Letters, Templates</u>

Holler if you need anything or have problems with any of the e-docs.

Thanks,

# Dawn M. Woodard

Environmental Specialist I / Database Manager Department of Environmental Quality Northern Regional Office - Remediation Division (703) 583-3899 office (703) 583-3821 fax

NEW EMAIL: dawn.woodard@deq.virginia.gov

From: Woodard, Dawn (DEQ)

**Sent:** Thursday, March 03, 2011 1:18 PM

To: 'James Kassouf'

Cc: Miller, Mark (DEQ); Glassman, Joseph (DEQ)

Subject: RE: Petroleum Contaminated Water at KCR/Joint Venture Site

James,

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Feel free to contact me if you have any questions.

Thank you,

# Dawn M. Woodard

Environmental Specialist I / Database Manager Department of Environmental Quality Northern Regional Office - Remediation Division (703) 583-3899 office (703) 583-3821 fax

NEW EMAIL: dawn.woodard@deq.virginia.gov

From: James Kassouf [mailto:jkassouf@creqcc.com]

**Sent:** Tuesday, March 01, 2011 7:58 PM

**To:** Woodard, Dawn (DEQ) **Cc:** Miller, Mark (DEQ)

Subject: RE: Petroleum Contaminated Water at KCR/Joint Venture Site

Ms. Woodard, Mark Miller asked that I forward you the attached permit, I apologize for the delay. Please see attached. Thank you for your time,

James R. Kassouf
KCR Joint Venture
11654 Plaza America Drive, # 177
Reston, VA 20190-4700
(216) 409-7509 Mobile
(216) 395-0101Fax
JKassouf@CREQCC.com

Owner: Fairfax County Water Authority Title: Corbalis to Fox Mill 54" Water Main

Project: 1859/4 Contract No: 4500000646

From: Miller, Mark (DEQ) [mailto:Mark.Miller@deq.virginia.gov]

Sent: Wednesday, February 23, 2011 3:31 PM

To: James Kassouf

Cc: Glassman, Joseph (DEQ); Woodard, Dawn (DEQ)

Subject: RE: Petroleum Contaminated Water at KCR/Joint Venture Site

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From: Miller, Mark (DEQ) [mailto:Mark.Miller@deq.virginia.gov]

**Sent:** Monday, February 14, 2011 2:55 PM **To:** James Kassouf; Jim Foley; Jared Leute

Cc: Glassman, Joseph (DEQ); Woodard, Dawn (DEQ); fmendler@fairfaxwater.org

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Virginia Department of Environmental Quality – Northern Regional Office 13901 Crown Court, Woodbridge, VA 22193 Fax 703-583-3821 Attn: Dawn Woodard E-mail:dawn.woodard@deq.virginia.gov 703 583-3899

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From: Woodard, Dawn (DEQ)

**Sent:** Thursday, March 03, 2011 1:18 PM

To: 'James Kassouf'

Cc: Miller, Mark (DEQ); Glassman, Joseph (DEQ)

**Subject:** RE: Petroleum Contaminated Water at KCR/Joint Venture Site

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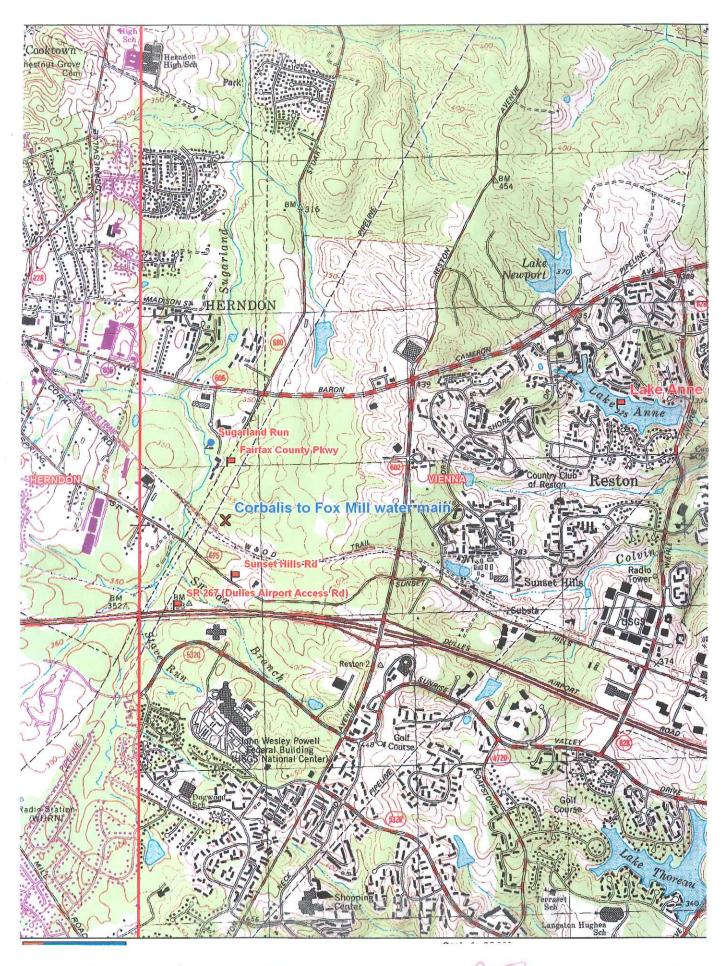
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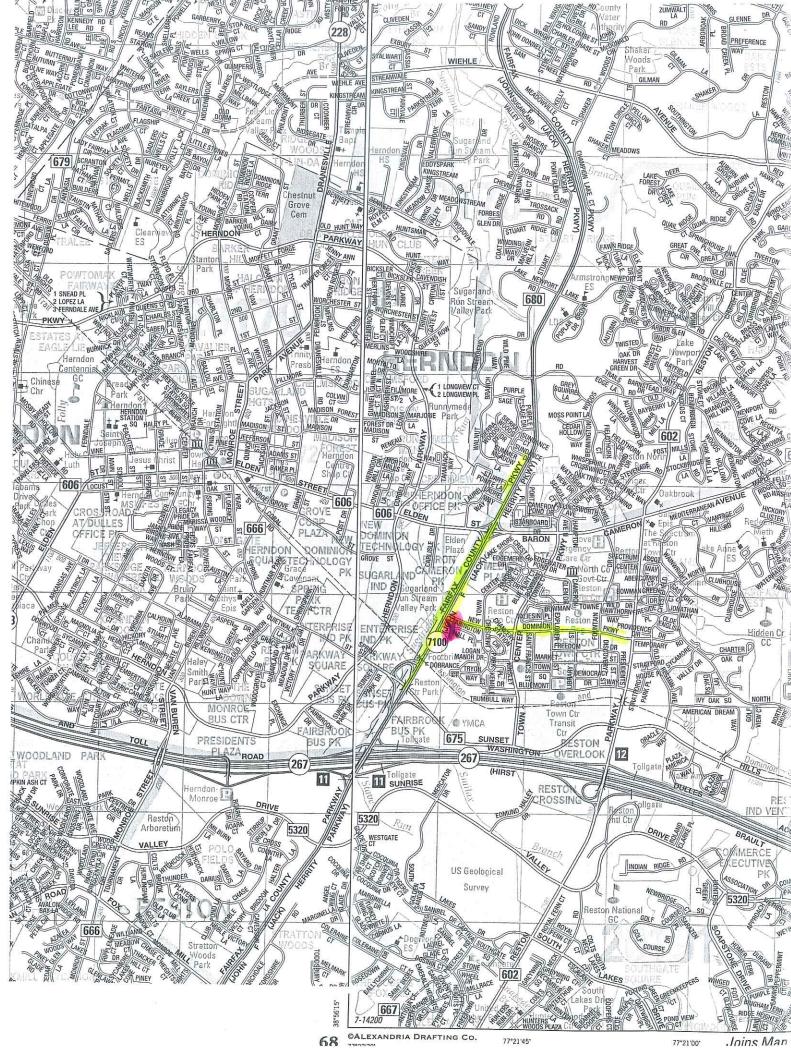
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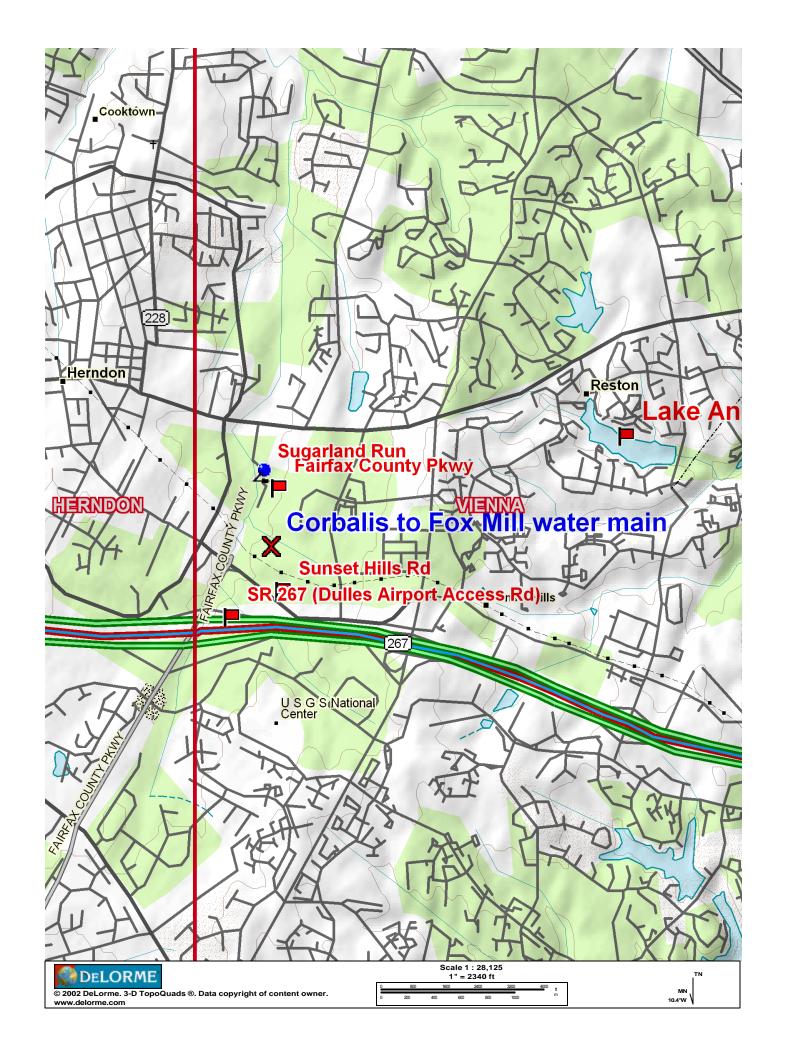
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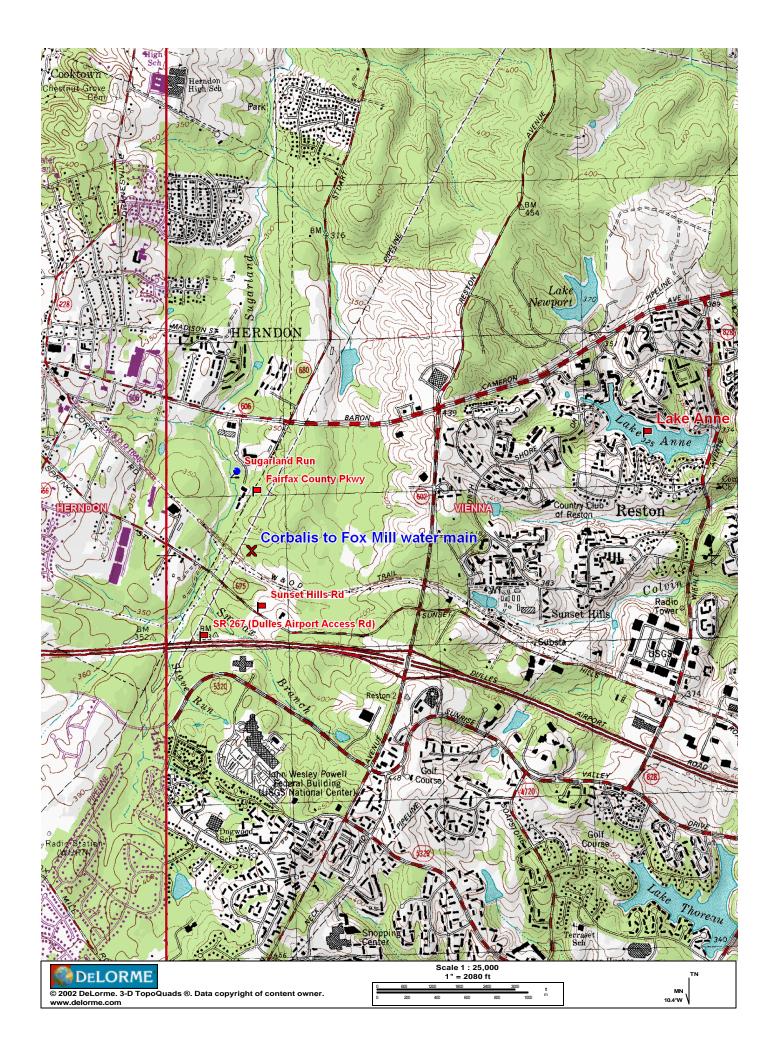
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www.deq. virginia.gov/prep/



Topo Water Body: M Basin: Pot Rapp York James Section: Spec.Standards:







# PREP incident report

<u>Print</u>

# **Incident Report Information**

(Information presented below is provided by the Commonwealth of Virginia, Department of Environmental Quality (DEQ) and updated as the incident is handled.)

Reference Number 7560

IR Number 2011-N-1934
County/City Fairfax County

Status Open
Assigned To mlmiller

Call Received Date 1/18/2011 12:00:00 AM

Call Received By mlmiller

**Incident Date** 

Site Name KCR/Fairfax Water-Corbalis Tunneling Oil Discharge

Site Address 12025T New Dominion Pkwy-NE Corner of WO&D Trail & FFX Co Pkwy Reston VA,

## **Reported By**

No contact recorded.

## **Scene Contact**

No contact recorded.

# **Responsible Party**

No contact recorded.

## **Property Owner**

No contact recorded.

# **Incident Detail**

# **Receptor Information**

Affect Impacted

Water Body Sugarland Run/Potomac River

High Range Amount Low Range Amount

Unit

Other Water Body

Threat To:

Characterize Incident As: Accidental

## Materials involved

Name	<b>Amount Estimate Low</b>	Amount Estimate High	Unit Type
Hydraulic oil	1	-1	Gallons
Oil (Lubricating)	1	-1	Gallons

## **Site Summary Notes**

No notes

# **Incident Type**

Petroleum Surface Spill, Petroleum Water Point Source, Water

# **Events**

Received Date	Event Status	User	Tracking Number	Due Date	Completed Date	Compliance Date
1/18/2011 4:55:18 PM	Notification Sent	mlmiller				
1/18/2011 4:44:30 PM	Date IR Initiated	mlmiller				
1/18/2011 4:43:10 PM	Call Received	mlmiller				
	Site Visit	mlmiller			1/19/2011 12:00:00 AM	
	Site Visit	mlmiller			1/20/2011 12:00:00 AM	
	Site Visit	mlmiller			2/14/2011 12:00:00 AM	
	Site Visit	mlmiller			2/8/2011 12:00:00 AM	
	Task Letter	mlmiller		3/21/2011 12:00:00 AM	2/2/2011 12:00:00 AM	

# Sewage

Duration of event

0

Impact of event

Other Impact

Steps to reduce, prevent,

mitigate

System Components

Other System Components

Cause of Event

Description of Steps Taken to Reduce, Prevent, Mitigate

Corrective Action Taken

Dry or Wet N/A
Precipitation in inches 0
What type of discharge? N/A
Discharge Volume 0
Unknown Discharge Volume No

## **CEDS**

No records

## **Documents**

T:\PReP Application Files\NRO Attachment Files\2011N1934

## Call Info

IMPORTANT: The information below is presented **as it was reported** to the Commonwealth of Virginia, Department of Environmental Quality (DEQ); this information is not updated if and when errors are found by DEQ staff. Refer to the "Inciden Report Information" section above for validated data.

Incident Date/Time

City/ County Fairfax County

## **Location Description**

Fairfax Water-Water Tunneling Work, 1801 Fairfax County Parkway, Reston. Construction site is located at the intersection of FFX Co Pkwy & the Old Dominion Washington Trail, NE corner.

# **Incident Description**

Contractor for Fairfax Water is discharging water and oil into a SWMP next to construction activity at 1801 Fairfax Co Pkwy. Caller stated work is for a water tunnel and equipment used for the tunneling goes through 20 gal/day of hydraulic oil and gea oil. This results in a sheen/oil diacharge to the SWMP. The only treatment for the discharged water is a filter bag. This has bee going on for about two weeks. No mention of petroleum odors associated w/ discharge. Co conducting work is from OH but caller does not know the Co name. Caller did not want to provide name.

# **Material Description**

hydraulic & gear oil

Incident Still Occurring Yes
Have other State, Local, or
Federal Agencies been notified?

Agencies Notified

Impacted Waterbody most likley Sugarland Rn

Permitted Facility No

**Facility Name** 

Applicable Permit ID

Reported By		
ANONYMOUS ANONYMOUS		
_		
Responsible Party		
-		
Contact on Scene		
-		
Property Owner		
-		

703 583-3899

From: Miller, Mark (DEQ)

Sent: Monday, February 14, 2011 2:55 PM

To: jkassouf@kassouftunnel.com; jfoley@creqcc.com; jleute@creqcc.com
Cc: Glassman, Joseph (DEQ); Woodard, Dawn (DEQ); fmendler@fairfaxwater.org

Subject: Petroelum Contaminated Water at KCR/Joint Venture Site

Attachments: PetroGP08-RegistrationStatement-r1.doc

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Project: 1859/4 Contract No: 4500000646

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From: James Kassouf [jkassouf@creqcc.com]
Sent: Wednesday, March 02, 2011 4:10 PM

To: Miller, Mark (DEQ)

**Cc:** Woodard, Dawn (DEQ); Glassman, Joseph (DEQ)

Subject: RE: Petroleum Contaminated Water at KCR/Joint Venture Site

Mark,

OK, I should be in all Day.

James Kassouf

From: Miller, Mark (DEQ) [mailto:Mark.Miller@deq.virginia.gov]

Sent: Wednesday, March 02, 2011 4:04 PM

To: James Kassouf

Cc: Woodard, Dawn (DEQ); Glassman, Joseph (DEQ)

Subject: RE: Petroleum Contaminated Water at KCR/Joint Venture Site

James, we received the registration statement. Dawn Woodard has a couple of questions about the permit statement. She will likely contact you tomorrow.

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From: Miller, Mark (DEQ) [mailto:Mark.Miller@deq.virginia.gov]

**Sent:** Monday, February 14, 2011 2:55 PM **To:** James Kassouf; Jim Foley; Jared Leute

Cc: Glassman, Joseph (DEQ); Woodard, Dawn (DEQ); fmendler@fairfaxwater.org

Subject: Petroelum Contaminated Water at KCR/Joint Venture Site

Mr. Kassouf, attached is the General Permit Registration Statement for Discharges from Petroleum Contaminated Sites. Please complete the attached statement and return it to the DEQ Regional Office at:

Virginia Department of Environmental Quality – Northern Regional Office 13901 Crown Court, Woodbridge, VA 22193 Fax 703-583-3821 Attn: Dawn Woodard E-mail:dawn.woodard@deq.virginia.gov 703 583-3899

Please call myself, Dawn Woodard, or Joe Glassman (703-583-3808), with any questions regarding the permit application.

Mark L. Miller - Pollution Response Program Virginia Department of Environmental Quality - NRO 13901 Crown Court, Woodbridge, VA 22193 Ph. 703-583-3864; Fax 703-583-3821 E-mail: Mark. Miller @deq.virginia.gov www.deq.virginia.gov/prep/